

Doctorate Course (DC)

2024



Technology-based Entrepreneurship Course 3

2 credits

While you are welcome to apply at any time, please note that it is necessary to consult and plan with the company in advance.

1 Essential mindset for researchers

TEC 1 ※on-demand

2 Corporate research (internship course)

- (1) Corporate researcher pre-internship course**
 - Corporate manners (Corporate life, business and research manners)
 - Compliance
 - Health and safety
- (2) Corporate research internship**
 - Merchandise cost and R&D
 - IP and its basics (corporate IP)
 - Transferable skills
- (3) Corporate research reporting session**
 - Corporate research internship in domestic/international companies and universities
 - Corporate research-related reporting and discussion



Technology-based Entrepreneurship Course 4

2 credits

While you are welcome to apply at any time, please note that it is necessary to consult and plan with the company in advance.

1 Essential mindset for researchers

TEC 1 ※on-demand

2 Essential qualities of corporate leaders

TEC 9
 • Leadership lecture (organizational theory and leadership theory)
 TEC 2Ha ③④
 • Leadership seminar ※on-demand

3 R&D leader development corporate internship

- (1) Corporate researcher pre-internship course**
 - Corporate manners (Corporate life, business and research manners)
 - Compliance
 - Health and safety
 - Merchandise cost and R&D
- (2) Corporate research internship**
 - IP and its basics (corporate IP)
 - Leadership qualities
 - Research planning and management
 - Transferable skills
- (3) Wrap-up meeting**
 - Corporate research internship in domestic/international companies and universities (Research planning / Group corporate internship / Research result report)
 - Report and Dialogue on Company Research

◆ information on credit certification for TEC, TEC1, TEC2, TEC3, and TEC4, please check the course requirements in your field or contact your support office.



Industry-University Collaboration

For details, check UNIPA and IDec homepage.

1. Internship

[Open to Master's and Doctorate course students]

Students (including TEC 3 applicants) interested in corporate internships can apply through the C-ENGINE and the Coop-J Consortium's Web system. For details, contact to the Center for Advanced Education in Entrepreneurship and Innovation.

C-ENGINE member companies

<https://www.c-engine.org/student/>

Coop-J Consortium member companies

<https://2022ss-igbr.coopj-intern.com/login>

2. Business network meetings with companies

Planned for
Apr.26(FRI)
Web

[Open to Master's and Doctorate course students and postdoctoral researcher]

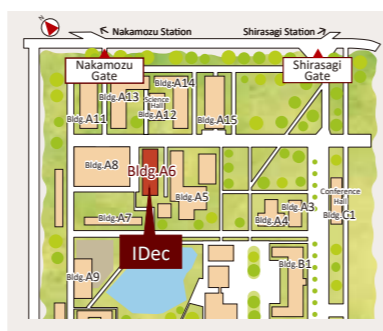
The following exchange meeting with companies will be held in collaboration with the C-ENGINE. Participants will learn about the various companies and exchange information and engage in discussion with corporate representatives, seeking to facilitate the search for internships and the development of a future career path.

3. Interactive matching (IM) Open call for applicants.

[Open to Doctorate course students and postdoctoral researcher]

IM involves having a DC student explain his or her research, including its industry-related applicability, to a corporate professional in a different field while, at the same time, promoting himself/herself as a researcher.

This will serve as an opportunity for all of the presenters to work on their communication skills when talking to people outside of their field of specialization.



**Center for Advanced Education
in Entrepreneurship and Innovation (IDec)
Faculty of Liberal Arts, Sciences and Global Education**

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TEL: 072-254-8266

Web: https://www.omu.ac.jp/las/jinzai_eng/

TEC

Graduate School Common Education Subjects

Technology-based Entrepreneurship Course

〈 Open to all graduate schools 〉

Develop crucial skills for transferring the results of academic research into real-world applications.

TEC Curriculum Overview

M1 M2 D1 D2 D3

TEC Technology-based Entrepreneurship Course
Learn a wide range of essential elements such as MOT, etc.



TEC1

Technology-based Entrepreneurship Course 1
Developing business proposals



TEC2
A-H

Technology-based Entrepreneurship Course 2
Cultivating Entrepreneurship in A-H Courses

TEC3

Technology-based Entrepreneurship Course 3
Three-month research internship

TEC4

Technology-based Entrepreneurship Course 4
Conducting research on company-relevant themes as a team

Business network meetings with companies, Career Development Events, Internship Consultation (as needed)

Interactive matching (IM)

The curriculum strives to equip students with the necessary attitude and skills to generate innovative research outcomes and excel in various industries. Additionally, it aims to develop human resources with the ability to conduct research from a broad international perspective and come up with ideas that address real-world situations and the needs of industries. Those enrolled in the Doctoral program will have the option to attend four lecture/seminar subjects, whereas those in the Master's program can attend one subject.

Click here for curriculum details.



Contact (Office Hour 9:00 to 17:00 Mon to Fri *JST)



Master's Course (MC)

Orientation The video is available from Apr.1, please find more details on UNIPA.



Technology-based Entrepreneurship Course (TEC) 2 credits

15 classes in total : 3 take in the classroom(in-person) [assigned by professors], 10 Zoom online (Live) [Includes compulsory 12 or 13], and 2 on-demand (LMS Support System).
 ※Please note that some changes may occur depending on the campus where you are enrolled.
Time : Tuesday, 5th period (16:45-18:15)
Venue : Rm.116, Bldg. B3, Nakamozu Campus / Rm.822, General Education Bldg, Sugimoto Campus

1 Essential mindset for researchers

1 Orientation Why innovation is necessary and who provides it	Director of Center for Advanced Education in Entrepreneurship and Innovation Toshiyuki MATSUI, Ph.D. Project Coordinator, Masataka HAMADA	from Apr.1 Posted on UNIPA	On demand
2 Necessity of advanced researchers from the perspective of corporate managers	Deputy General Manager, BlackJack Project Advanced Management Office HORIBA, Ltd. Ms. Sumiyo ISHIKAWA	Apr.16	Nakamozu
3 The appeal of entrepreneurship and starting a business	Specially Appointed Professor, Osaka Metropolitan University Formerly at Director of CVC, Hitachi, Ltd., Tadashi HIROSE	Apr.23	Sugimoto

2 Internship report

4 The appeal of research internships	TEC 3.4. Research internship registrants	from May 7	On demand
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3 Essential knowledge for corporate researchers

5 Required Technical Professional Profiles in Society 5.0 • Technical professionals expanding their activities on a global scale • Human resource development for technical professionals in the innovation era	Specially Appointed Professor, Osaka Metropolitan University Formerly at IBM Japan Satoshi TSUJI, Ph.D.	May 14	Nakamozu
6 Responsible Research and Innovation RRI, Technology and Society, Research Integrity, Social Impact	Ernst & Young ShinNihon LLC Manager, Mr. Go YOSHIZAWA, Ph.D Principal, Mr. Takayuki NAKATSUKASA	May 21	Nakamozu
7 R&D in companies • Research and development activities in companies • Skills and knowledge necessary for the future	Specially Appointed Professor, Osaka Metropolitan University Formerly at Panasonic Holdings Corporation Tetsuo KAWAKITA, Ph.D.	May 28	Sugimoto
8 Intellectual property and Legal Affairs • IP strategy • Intellectual Property Strategy, required legal /IP knowledge for Ventures	Lawyer, Kansai Law & Patent Office Mr. Nobuo TOMITA Lawyer, Nakanoshima Chuo Law Office Mr. Masaki TARUMI	Jun.4	Nakamozu

4 Essential skills for corporate researchers

9 Leadership (lecture in English) • Organizational theory and leadership theory	Lecturer, Meijo University / Author and Coach, IBI Mr. Ian Roth, Ph.D.	Jun.11	Nakamozu
10 Presentation skills	Associate Professor, Graduate School of Information Technology, Kobe Institute of Computing Formerly at Panasonic Holdings Corporation Mr. Yasushi KOYABU	Jun.18	Sugimoto
11 Design creativity	President, Idea Research Institute Mr. Takashi OSAWA	Jun.25	Nakamozu
12 Idea creation work Design thinking and Business Model Canvas Systems thinking and systems approach	President, Idea Research Institute Mr. Takashi OSAWA Specially Appointed Assistant Professor, Osaka Metropolitan University Sunyoung LIM	Jul.2	Online (Live) Nakamozu
13 Idea creation work Design thinking and Business Model Canvas Entrepreneurial Decision-Making Exercise Causation and Effectuation	President, Idea Research Institute Mr. Takashi OSAWA Specially Appointed Lecturer, Osaka Metropolitan University Hiromi YAMADA	Jul.9	Online (Live) Nakamozu

5 Innovation creation examples

14 Innovator-led case studies Stories from entrepreneurs, examples of new business creation within companies, etc.	General Manager, Digital Technology Development Department, ITOKI Corporation Mr. Kei AKIYAMA Chief Executive Officer, Africa Asia Health Dynamics LTD Mr. Kenta HARA	Jul.16	Nakamozu
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6 Career design

15 Researcher career design	Senior Consultant, Deloitte Tohmatsu Consulting LLC Mr. Yusuke AKAIWA	Jul.23	Nakamozu
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"The curriculum (TEC, TEC1, 2, 3, 4) is a program designed to cultivate advanced researchers and research leaders who can drive innovation in the industrial sector, as part of the "Regional and Industry-led Advanced Human Resource Development Program"※1 and the "Regional and Industry-led Research Leader Development Program"※2. This education program, which includes entrepreneurship education as part of the "Science and Technology-driven Innovation Creation Player Development Program"※3, has been implemented and now formalized as a curriculum. By taking these lectures and exercises, students can earn credits. In addition, upon completion of TEC1, 3, 4, a "Certificate of Achievement" will be awarded."

※1 Young Researchers Education Program for Education/ Ministry of Education, Culture, Sports, Science and Technology ※2 Practical Research Leader Development Program/ Ministry of Education, Culture, Sports, Science and Technology
 ※3 Enhancing Development of Global Entrepreneur Program (EDGE) /Ministry of Education, Culture, Sports, Science and Technology

Doctorate Course (DC)

Orientation The video is available to view from Apr.1, please find more details on UNIPA.



Online registration is not available to register.
 For details, please see the orientation video from the "TEC Curriculum Guide" posted on UNIPA.

To register the classes, fill out the Forms of the following URL.
<https://forms.office.com/r/c1iupGdkXR>
 Due date for registration (Strictly adhere)
 TEC1: May 15
 TEC2A-H: Two weeks before the course starting date



Technology-based Entrepreneurship Course 1 2 credits



Time : Wed. 4th & 5th periods
 ◇You need to submit an assignment, before you will take the course.
 Please see the orientation video for details.

1 Essential mindset for researchers

TEC 1 ※on-demand

2 Essential knowledge for corporate researchers

TEC 3 ※on-demand

3 Business plan creation

Business planning seminar overview and schedule Jun.5, 5th period Rm.329, Bldg. A6, Nakamozu Campus	Coaching Jul.3, Jul.10, Jul.31, Aug.7, Sep.4 Rm.329, Bldg. A6, Nakamozu Campus	Business plan presentation Sep.25 Bldg. A12 Science Hall, Nakamozu Campus
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Technology-based Entrepreneurship Course 2 A-H 1 credit for each subject



Venue: Bldg. B4 East Lecture Rm. K102, Nakamozu Campus
Time : 4th & 5th periods
 ◇Students are free to take as many subjects as they wish from A to H.

TEC2 A Management of Technology (lecture in English)	Specially Appointed Professor, Osaka Metropolitan University Co-founder, COO, KOSEI LLC, Japan/ Lecturer, Innovation Academy, UNM Eri HOSHI	①~④ on-demand participation period Oct.21 - Nov.21 ⑤⑥ Nov.22 ⑦⑧ Dec.6	Fri.
TEC2 B Management of Technology Exercises	Senior Manager (MOT), PwC Consulting LLC Mr. Yasushi KANEGAE	①② on-demand participation period Oct.4 - Nov.4 ③④ Nov.5 ⑤⑥ Nov.12 ⑦⑧ Nov.19 ※Nov.5 and Nov.19 classes will be held jointly with participants/ students in the Practitioner Teacher Training Program.	Tue.
TEC2 C Intellectual Property Right Strategy	Formerly at Director of Bio-sensing Systems Laboratory, SHARP Corporation Yoshiro AKAGI, Ph.D. and Master of Intellectual Property	① Oct.3 ② Oct.10 ③ Oct.17 ④ Oct.24 ⑤ Nov.7 ⑥ Nov.14 ⑦ Nov.21 ⑧ Nov.28	Thu. 4th period
TEC2 D Idea Creation Design thinking workshop	Chief Executive Officer, hers design inc. Mr. Chiaki MURATA Section Chief, Technology Development Planning Section, Bridgestone Corporation Mr. Osamu SHIINO, Ph.D. Specially Appointed Professor, Osaka Metropolitan University Formerly at Director of CVC, Hitachi, Ltd., Tadashi HIROSE	①② Aug.27 ③④ Sep.10 ⑤⑥ Sep.6 ⑦⑧ Sep.13	Tue. Fri.
TEC2 Ea Management & Marketing	Professor, Graduate School of Engineering, Department of Electrical and Electronic Systems Engineering, Osaka Metropolitan University Kazuko MORIZAWA, Ph.D. Professor, School of Business Administration, Senshu University Mr. Satoshi Ajiro	① Oct.7 ② Oct.21 ⑦ Nov.11 ⑧ Nov.18 ③④ Oct.25 ⑤⑥ Oct.26	Mon. 4th period 3rd & 4th period
TEC2 Eb Technology Marketing Game (lecture in English)	Specially Appointed Lecturer, Osaka Metropolitan University Hiromi YAMADA	① Oct.3 ② Oct.10 ③ Oct.17 ④ Oct.24 ⑤ Oct.31 ⑥ Nov.7 ⑦ Nov.14	Thu. 1st & 2nd period
TEC2 F Venture Business & Entrepreneurship Basics	Specially Appointed Professor, Osaka Metropolitan University Formerly at Director of CVC, Hitachi, Ltd., Tadashi HIROSE	①~⑧ All on-demand participation period Sep.5 - Nov.5	
TEC2 G Venture Business (English instruction available)	Specially Appointed Professor, Osaka Metropolitan University Formerly at Director of CVC, Hitachi, Ltd., Tadashi HIROSE	①② Nov.6 ③④ Nov.13 ⑤⑥ Nov.20 ⑦⑧ Nov.27 ※Those wanting to take TEC 2 G are advised to take the TEC 2 F basic lectures ※Nov.6 and Nov.27 classes will be held jointly with participants/ students in the Practitioner Teacher Training Program.	Wed.
TEC2 Ha Leadership • Leadership seminar (lecture in English) • Presentation seminar • Project management seminar	Lecturer, Meijo University / Author and Coach, IBI Mr. Ian Roth, Ph.D. Associate Professor, Graduate School of Information Technology, Kobe Institute of Computing Formerly at Panasonic Holdings Corporation Mr. Yasushi KOYABU Chief Executive Officer, KANDO Corporation Mr. Teruyuki TAKAHASHI	①② on-demand participation period Jul.22 - Aug.21 ※①② are the same as the lectures for ⑨ Jun.11 and ⑩ Jun.18 (see left-hand page; on-demand participation) ③④ Aug.22 ⑤⑥ Aug.28 ⑦⑧ Aug.30	Thu. 3rd & 4th period Wed. Fri.
TEC2 Hb Leadership (lecture in English)	Lecturer, Saybrook University Ms. Nancy Southern, Ed.D Lecturer, Meijo University / Author and Coach, IBI Mr. Ian Roth, Ph.D.	① Aug.22 ② Aug.29 ③ Sep.5 ④ Sep.12 ⑤ Sep.19 ⑥ Sep.26 ※2hours x 6class	Thu 9:30~11:30am



Those Master's course students wishing to take TEC 2 A-H should apply using the QR code below.
<https://forms.office.com/r/UiuCUu1ttJ>

※Topics are identical to those for the Doctorate course, but no credit is given.

