**F.3 Organisations and activities**

*This part must be completed separately by each organisation participating in the project (applicant and partners with its affiliated entities (if any)).*

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This part needs to be revised later by QNU.

*Please copy and paste tables as necessary*

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| --- | --- | --- | --- | --- |
| **Partner number** ☒ | 946628045 | | | **P1** |
| **Organisation name & acronym** | Quy Nhon University (QNU) | | | |
| **F.3.1 - Aims and activities of the organisation**  *Please provide a short presentation of your organisation (key activities, affiliations, size of the organisation, etc.) relating to the area covered by the project* (limit 2000 characters)*.* | | | | |
| Located in Binh Dinh province, Quy Nhon University is a multidisciplinary and multi-sector leading higher education institution in the South Central Coast and Central Highlands of Vietnam. Our mission is to train and develop high-quality human resources, foster talents, conduct scientific research, disseminate knowledge, and transfer technology, thereby effectively serving the sustainable development of the country, especially of the South Central Coast and Central Highlands of Vietnam, contributing to the society's progress. Over 40 years, QNU has shown its important and active role in providing high-quality human resources, contributing to the development of economy, education, science and technology of the South Central Coast and Central Highlands of Vietnam. With a team of young and motivated lecturers and researchers (152 PhD holders), many of whom have obtained higher education from internationally recognized institutions, the quality of the research activities has been significantly improved, and the integration of research into education and training has been greatly promoted.  We are currently providing 46 undergraduate training programmes for around 14,000 students in different disciplines ranging from pedagogy, natural sciences, social sciences & humanities, economics & finance, and engineering & technology. In addition, we provide 21 master programmes and 3 doctoral programmes for more than 1,000 master students and PhDs. Especially, QNU offers programmes in chemical engineering (BSc, MSc, PhD), accounting (BSc, MSc), electrical engineering (BSc, MSc) and information technology (BSc, MSc) for … students. In recent years, the researches in the fields of natural sciences, IT, engineering and economics have been intensively focused, obtaining important achievements that pave the way to international collaboration in education and research. As a result, three projects funded by the VLIR-UOS (one VLIR-TEAM project and two South Initiatives projects) and one recent project funded by the European Commission (MOMA project) in collaboration with different European universities recently granted by the VLIR-UOS are the greatest rewards to their endeavour. | | | | |
| Only for Partner Country institutions, please provide information on:   |  |  | | --- | --- | | Number of Memoranda of Cooperation/Understanding the HEI has signed with HEIs outside their own country? | 19 MoUs with universities and institutions in European Union: KU Leuven (Belgium), Evora (Portugal), Aix-Marseille and Limoges (France), Tomas Bata (Czech), and Camerino (Italy)  22 MoUs with universities and institutions in Asia: Dankook and Sookmyung (Korea), NCTU (Taiwan), and Ryukoku (Japan). | | Number of students | Around 14,000 undergraduate students and 1,000 graduate students | | Number of Bachelor degrees offered | 46 | | Number of Master degrees offered | 21 | | Number of PhD degrees offered | 3 | | Have you participated in CBHE?  If yes, list CBHE projects titles and reference numbers.  Describe curricular/ courses developed/ modernised, if any (name of the subject area and courses titles) | QNU has participated in the following CBHE projects:   1. Research-based curriculum development in molecular and materials sciences in Vietnam (MOMA-VIET), with KU Leuven, 2019 – 2022 (supported by Erasmus+) REF: 597795-EPP-1-2018-1-BE-EPPKA2-CBHE-JP; 2. Fostering Equity and Inclusion in Vietnamese Higher Education – EQUAL, with the Education, Audio visual and Culture Executive Agency (EACEA), 2019; 3. South East Asia Science Capacity Enhancement Network (SEASCEN), with the University of Evora (Portugal), 2019, (supported by Erasmus+); 4. Strategic Human Resources Management for Southeast Asian Universities (HR4ASIA), 2016 – 2019 (supported by Erasmus+ CBHE action HR4ASIA) REF: 573946-EPP-1-2016-1-VN-EPPKA2-CBHE-JP; 5. Enhancing the educational programme and research of the master in solid state physics at Quy Nhon University with KU Leuven, 2018 – 2019 (supported by VLIR-UOS); 6. Reinforcing the capabilities of Quy Nhon University-Vietnam in solving local problems by building up a doctoral training programme Quy Nhon University, Vietnam, with KU Leuven, 2016 – 2020 (supported by VLIR-UOS); 7. Enhancing capacity in human resource development for departmental management staff at Quy Nhon University, Facility for Capacity Building (FCB), 2018 (supported by Belgium government); 8. Erasmus Mundus Mobility with Asia-East 2014 (EMMAE14) with University of Nice Sophia Antipolis (UNS), France REF: 5457719-EM-1-2013-FR-ERA MUNDUS-EMA21. | | | | | |
| **F.3.2 – Role of your organisation in the project**  *Please describe also the role of your organisation in the project* (limit 1000 characters)*.* | | | | |
| QNU will be the coordinator of this project, ensuring proper communication between participating institutions and the sponsor. QNU will actively cooperate with other project partners and keep an eye on the implementation of the whole project and the attainment of the specific objectives in the given timeframe.  QNU will be the lead organization of the WP4 (Build up a cloud-based simulation center for professional education), WP5 (External evaluation) and WP7 (Project management). In addition, QNU will support the implementation of all other work packages, such as WP1 (Identify curriculum gaps and potential enterprises for cooperation), WP2 (Establish and strengthen the cooperation between universities and enterprises), WP3 (Curriculum design and upgradation) and WP6 (Campaign to raise the public awareness toward the university-enterprise cooperation). | | | | |
| **F.3.5 – Strengthening of relations between HEIs and the wider economic and social environment** *(only for Partner Country institutions)*  *Please fill in if you are applying for this type of project and define clear the activities to be held in your institution* (limit 2000 characters) | | | | |
| QNU will be the lead organization of the WP4 (build up cloud-based simulation center), WP5 (Quality plan) and WP7 (Management). In the WP4, QNU will be responsible for identifying, purchasing and installing specialized softwares and need-to-buy items for the cloud computing system. The cloud-based simulation center for professional education will be established at QNU. All the VCPU staff members will be trained for utilizing this cloud-based simulation center. With the WP5, QNU will take care of the external evaluation on the implementation of the project. The mid-term and final report will be delivered at QNU after 18 months and 34 months of the project, respectively. As coordinator of the project, the execution of the project is managed by QNU (WP7). The progress and end report will be delivered by QNU.  In addition, QNU will support the implementation of all other work packages. In the WP1, QNU will contribute to standardizing the questionnaires, supporting the curriculum gap survey and sending staff members to the workshop, assigned by TNU. In order to strengthen the cooperation between universities and enterprises (WP2), QNU will participate in signing MoUs with enterprises organized by DUT and send ??? students to have internship and to do capstone projects at enterprises. Within WP3, QNU will upgrade and/or build total 6 courses, identify QNU staff to visit local enterprises and EU. Along with the leader of this work package, QNU will arrange travels, send lecturers to follow the courses delivered by EPU professors and experts from local enterprises. Furthermore, one education program at QNU will be accredited with AUN-QA standard. In the WP6, QNU will participate in dissemination activities such as job fair organization, start-up contest leading by UD. | | | | |
| **F.3.6 – Expected results and impact** *(only for Partner Country institutions)* | | | | |
| What are the expected tangible results from the project in your HEI? | | | The following tangible results are expected from the projects at QNU:  - The network of partner institutions and local enterprises will be established.  - 16 MoUs will be signed between VCPU and enterprises.  - Four training programmes in the fields of ACEI at QNU will be updated with the cooperation of the enterprises.  - Through center for supporting student and enterprise relationship, QNU students can have full information about enterprises’ demands.  - Students will be actively supported by the technical staffs of the enterprise in order to approach the new equipment and the technological process at the enterprise. They will improve their soft skills and work experience for exciting career opportunities.  - Through the cloud-based simulation center for professional education at QNU, students will perform practical works on software programs.  - Entrepreneurial spirit and start-up ideas among students will be nurtured.  - QNU staff members get the chance to conduct applied research and at the same time valorise their knowledge.  - University-business collaboration have a positive impact on the overall society. Furthermore, the ecosystem of the region, where the collaboration takes place can profit economically and socially from it.( đưa qua phần long impact – G1) | |
| How will the impact of these results be measured in your HEI? | | | The impact of these results will be quantitatively and qualitatively identified as follows:  - Surveys of graduates;  - Number of students who are beneficial from the project;  - Surveys and reports on the satisfaction of enterprises with the quality of graduates;  - Surveys and reports on student’s perceptions to curriculum on entrepreneurship spirit and start-up ideas;  - Number of students who receive internship placements in enterprises during the project;  - Number of students who do capstone projects at the enterprises;  - The cloud-based simulation center used by students;  - The number of lecturers trained and exchanged;  - The number of updated/built courses;  - The number of invited professors from EPU and experts from enterprises. | |
| What financial means and human and other resources will be provided to sustain these results after the project ends? | | | - The universities will organise crowdsourcing campaign, which will include an annual appeal to further support the project.  - Co-financing of the project is provided by university’s commitment and the universities' funding circles and creates the conditions for implementing the results (purchase of equipment after the end of the project, assembly and maintenance of rooms and equipment). The university’s contribution and funding circles will support the further development (training of the university staff, and dissemination activities and maintenance of training programmes).  - Through the project, capability of university staff will be enhanced. After that, they will then share their knowledge with other university staff. In this way, the project will continue to reach an additional indirect beneficiary after official project activities are completed.  - The equipment purchased through the project will be used for teaching and learning in the following years.  - The sustainability of the project is ensured by training courses updated and developed in the projects. After the project is finished, these training courses will continue to be offered by the partner involved. | |
| **F.3.7 - Operational capacity: Skills and expertise of key staff involved in the project**  *Please add lines as necessary.* | | | | |
| **Name of staff member** | | ***Summary of relevant skills and experience, including where relevant a list of recent publications related to the domain of the project.*** | | |
| Assoc. Prof. Dr. DO Ngoc My | | Prof. DO Ngoc My is Rector of QNU. He received his PhD degree from University of Nantes (France) in 2002. He was a vice rector of QNU from 2009 to 2017, and since 2/2017 he becomes rector of QNU. He has had much experience in leadership, international relations and project management. His research interests are directed primarily toward marketing research in a variety of interrelated areas such as model for local commercial development, distribution channels in marketing, and model, tourism product for local tourism development. He has been PI of many collaboration projects funded by VLIR-UOS and Vietnamese government. | | |
| Assoc. Prof. NGUYEN Tien Trung | | NGUYEN Tien Trung is head of the Office of Research Affairs and International Relations. He has experience in department leadership, project management, international relations, and education curricula design. He obtained his PhD in chemistry at Hanoi University of Education in 2010. He worked as a postdoctoral researcher at KU Leuven in Belgium, and University of Evora in Portugal. He has authored or co-authored 38 peer reviewed international publications. His research interests deal mainly with molecular interactions and their role in physical chemistry, medicinal chemistry, biochemistry, and novel materials to adsorb antibiotic and xenobiotic organic compounds, and carbon dioxide gas.  **Relevant publications**:  1) **N. T. Trung**, P. N. Khanh, A. J. P. Carvalho and M. T. Nguyen, “Remarkable shifts of Csp2-H and O-H stretching frequencies and stability of complexes of formic acid with formaldehydes and thioformaldehydes”, *Journal of Computational Chemistry* 40, 1387-1400 (2019).  2) P. N. Khanh, P. D. C. Tu,H. Q. Dai, Q. V. Vo, V. T. Ngan, M. T. Nguyen, and **N. T. Trung**, “Insights into the cooperativity between multiple interactions of dimethyl sulfoxide with carbon dioxide and water”, *Journal of Computational Chemistry*, 40, 464–474 (2019).  3) N. N. Tri,A. J. P. Carvalho, A. V. Dordio, M. T. Nguyen, **N. T. Trung**, “Insight into the Adsorption of Chloramphenicol on a Vermiculite Surface”, *Chemical Physics Letters*, 699, 107–114 (2018).  4) N. T. H. Man, P. L. Nhan, V. Vien, D. T. Quang, **N. T. Trung**, “An insight into C-H···N hydrogen bond and stability of the complexes formed by trihalomethanes with ammonia and its monohalogenated derivatives”, *International Journal of Quantum Chemistry*, 117, 1-9 (2017).  5) P. N. Khanh, V. T. Ngan, N. T. H. Man, N. T. A. Nhung, A. K. Chandra, **N. T. Trung**, “An insight into Csp-H∙∙∙π hydrogen bonds and stability of complexes formed by acetylene and its substituted derivatives with benzene and borazine”, *RSC Advances* 6, 106662-106670 (2016).  **Relevant projects**  Local promoter of the SI project “Building up a New Master Programme in Chemistry in Quy Nhon University, Vietnam” (code number: ZEIN2012Z129, 2012-2014) funded by VLIR-UOS (Belgium).  Local promoter of the TEAM project “Reinforcing the capabilities of Quy Nhon University-Vietnam in solving local problems by building up a doctoral training programme” (code number: ZEIN2016PR431, 2016-2019) funded by VLIR-UOS (Belgium).  Key member of the MOMA project “Research-based curriculum development in molecular and materials sciences in Vietnam” (code number: 597795-EPP-1-2018-1-BE-EPPKA2-CBHE-JP, 2019-2022) funded by Erasmus + program (European Union). | | |
| Dr. NGUYEN Van Thang | | Dr. NGUYEN Van Thang obtained his PhD in Materials Science at Delft University of Technology, the Netherlands in 2017. He is currently a lecturer and researcher at the Department of Chemistry, Quy Nhon University, Vietnam. His research interests include the synthesis and characterization of magnetocaloric materials for room-temperature magnetic refrigeration. Relevant publications1) **N. V. Thang**, H. Yibole, N. H. van Dijk and E. Brück, “Effect of heat treatment conditions on MnFe(P,Si,B) compounds for room temperature magnetic refrigeration”, *Journal of Alloys and Compounds* 699, 633 (2017). 2) **N. V. Thang**, X. F. Miao, H. Yibole, K. Goubitz, L. van Eijck, N. H. van Dijk and E. Brück, “Effect of carbon doping on the structure and magnetic phase transition in (Mn,Fe)2(P,Si)”, *JOM* 69, 1432 (2017). 3) **N. V. Thang**, N. H. van Dijk and E. Brück, “Tuneable giant magnetocaloric effect in (Mn,Fe)2(P,Si) materials by Co-B and Ni-B co-doping*”*, *Materials* 10, 14 (2017). 4) X. F. Miao, **N. V. Thang**, L. Caron, H. Yibole, R. Smith, N. H. Van Dijk and E. Brück, “Tuning the magnetoelastic transition in (Mn,Fe)2(P,Si) by B, C and N doping”, *Scripta Materialia* 124, 129 ( 2016). 5) **N. V. Thang**, X. F. Miao, N. H. van Dijk and E. Brück, “Structural and magnetocaloric properties of (Mn,Fe)2(P,Si) materials with added nitrogen”, *Journal of Alloys and Compounds* 670, 123 (2016) | | |
| Assoc. Prof. Dr. TRAN Thi Cam Thanh | | TRAN Thi Cam Thanh is Dean of Economics and Accounting Faculty, QNU. She has lots of experience in leadership; project management; and program development. Currently, she is a member of **the Central Committee the Vietnam Fatherland Front’**the economic department. She obtained her Ph.D. in Accounting at National Economics University in 2007. Her interests consist of Accounting; Audit; Business analytics.  **Relevant Publications**  1) **Tran Thi Cam Thanh**, Dao Nhat Minh, Ngo Ai Van, “Factors affecting on choosing accounting services off small and medium – sized enterprises (SMEs) in Vietnam”, *24th EBES Conference – Bangkok, Thailand, January 10-12* (2018).  2) **Tran Thi Cam Thanh**, Tran Thi Yen, “The impact of accounting staff capacity, applied accounting basis and implement of internal control on financial statement quality: The case of public sector in Binh Dinh Province - Vietnam*”, 24th EBES Conference – Bangkok, Thailand, January 10-12* (2018).  3) **Tran Thi Cam Thanh**, Nguyen Ngoc Tien, Nguyen Thi Le Hang, “Determinants and Solutions for Improving the Efficiency of Tourism Business”, *American Journal of Theoretical and Applied Business*, 5 (1), 14 – 19 (2019).  4) **Tran Thi Cam Thanh**, Nguyen Ngoc Tien, ‘’Identify factors affecting business efficiency of small and medium enterprises (SMEs): Evidence from Vietnam’’, *Management Science Letters*, 9 (12), 1987-1998 (2019)  5) **Tran Thi Cam Thanh**, Nguyen Ngoc Tien, Ha Xuan Thach, Le Tran Hanh Phuong, “Factors affecting IFRS adoption in listed companies: Evidence from Vietnam”, *Management Science Letters*, 9 (13), 2169-2180 (2019) | | |
| Dr. HO Van Lam | | HO Van Lam is Vice Dean of Information Technology department. He has experience in department leadership and education curricula design. He obtained his PhD in Computer Science and Engineering at Yuan Ze University, Taiwan in 2016. His research interests deal mainly with Constrain Satisfaction Problems, Description Logic, Machine Learning, Data Science. **Relevant publications**  1) Chia-Yu Hsua, Bo-Ruei Kao, **Van Lam Ho**, Lin Li, K. Robert Lai, “An agent-based fuzzy constraint-directed negotiation model for solving supply chain planning and scheduling problems”, *Applied Soft Computing 48, 703-715*, (2016).  2) Chia-Yu Hsu, Bo-Ruei Kao, **Van Lam Ho**, K. Robert Lai, “Agent-based fuzzy constraint-directed negotiation mechanism for distributed job shop scheduling”, *Engineering Applications of Artificial Intelligence 53, 140-154*, (2016).  3) Ren-Hao Pan, **Van Lam Ho**, Phan Dinh Van, Hsiu-Chen Hsu, Robert K. Lai, Chien-Lung Chan, “Development of Daily Activity and Lifestyle Data Visualization Tool for the College Student Learning Analytics”, LAEDM*2016 Kanazawa, Japan, 1-5*, (2016)  4) **Van Lam Ho**, Thanh Tran Thien, Doan Thi Thu Cuc, “Landmark-Based Approximate Inference Algorithms for Hybrid Constraint Satisfaction Problems” *National Symposium of Selected ICT Problems* (2017),  5) **Van Lam Ho**, Tran Thien Thanh, Tran Hoang Viet, Truong Thanh Son, “Combination Landmark-Based and Self-Stabilizing Algorithm for Solving Constraint Satisfaction Problems” *National Symposium of Selected ICT Problems* (2018),  6) **Van Lam Ho**, K. Robert Lai, “A Fast Filtering Algorithm for Continuous Constraint Satisfaction Problems”, *RIVF 2019 IEEE Xplore*, (2019) | | |
| Dr. TRUONG Thanh Tam | | TRUONG Thanh Tam is head of Food – Chemical Engineering Department which belongs to Faculty of Natural Science. She obtained PhD in Chemical Engineering in 2014 from Hanoi University of Science & Technology, Vietnam. From 1999 to 2019 up to now she has worked as a lecturer in Department of Chemistry and Department of Natural Science at QNU, in which she has been teaching bachelor/master courses, supervising students doing thesis. She also contributes to designing and building up the curriculum of Chemical engineering and Food technology, and master programmes at QNU. Her research interests include the synthesis and characterization of catalyst materials for chemical engineering and treating wastes water.  **Relevant publications**  1) Vien Vo, **Tam Truong Thanh**, Hung Nguyen Phi, Phuong Tran Thi Thu, Sung Jin Kim, ‘’Adsorption of lead from water by thiol-functionalized SBA- 15 silicas’’*,* *[Journal of Materials Science](http://www.springerlink.com/content/100181/?p=b62c34db1c1947e4ae8178813486b85a&pi=0" \t "_blank)*, 45, 2952-2957 (2010).  2) Xuan Hoan Vu, **Thanh Tam Truong**, Udo Armbruster, Andreas Martin, ‘’Influence of post-synthetic treatments of aluminum-rich ZSM-5 on the catalytic cracking of bulky hydrocarbons at low temperature’’*,* *Reaction Kinetics Mechanisms and Catalysis, Journal Reaction Kinetics, Mechanisms and Catalysis*, 124 (1), 437-452, (2018).  3) Huu Ha Tran, Duy Huong Truong, **Thanh Tam Truong**, Thi Xuan Dieu Nguyen, Ying-Shi Jin, Sung Jin Kim, Vien Vo, “A Facile Synthesis of WS2/g-C3N4 Composites with Improved  Photocatalytic Activity”, [*Bulletin of the Korean Chemical Society*](https://app.dimensions.ai/discover/publication?and_facet_journal=jour.1047802&and_facet_source_title=jour.1047802), 39 (8), 965-971 (2018).  4) [Xuan Hoan Vu](https://www.researchgate.net/profile/Hoan_Vu4), [**Thanh Tam Truong**](https://www.researchgate.net/scientific-contributions/2135304014_Thanh_Tam_Truong), [Udo Armbruster](https://www.researchgate.net/scientific-contributions/78655720_Udo_Armbruster), “Enhanced cracking of bulky hydrocarbons over hierarchical ZSM-5 materials: a comparative study”, [*Journal of Porous Materials*](https://link.springer.com/journal/10934), 26 [(1](https://link.springer.com/journal/10934/26/1/page/1)), 175–184 (2019).  5) Nguyen Thi Phuong Le Chi, Nguyen Thi Dieu Cam, Doan Van Thuan, **Thanh Tam Truong,**Nguyen Thi Thanh Truc, Cao Van Hoang, Tran Thi Thu Phuong, Thanh-Dong Pham, Mai Hung Thanh Tung, Nguyen Thi Minh Thu, Nguyen Minh Phuong, Van Noi Nguyen, “[Synthesis of Vanadium doped tantalum oxy-nitride for photocatalytic reduction of carbon dioxide under visible light](https://www.sciencedirect.com/science/article/pii/S0169433218330393)”, *Applied Surface Science*,[467–468](https://www.sciencedirect.com/science/journal/01694332/467/supp/C), 1249-1255 (2019).  6) Huynh Van Nam, **Truong Thanh Tam**, Van Dinh Son Tho, “Kinetic modeling of thermal decomposition of sugarcane bagass in the inert gas environment”*,* *Vietnam Journal of Chemistry, Vietnam J. Chem.*, 57 (5), 574 – 580, (2019). | | |
| Dr. LE Tuan Ho | | Dr. LE Tuan Ho is head of Electrical Engineering Department which belongs to Faculty of Engineering and Technology, QNU. He obtained engineering degree and MSc in Electrical Engineering from Danang University and Technology and Hanoi University of Technology, Vietnam, in 2004 and 2008, respectively. He obtained his PhD in Industrial and Management Systems Engineering in 2016 from DongA university, South Korea. He worked as a postdoctoral fellow in the same university (2016-2017). From 2004 up to now, he has worked as a lecturer and researcher in Faculty of Engineering and Technology at QNU, in which he has been teaching bachelor/master courses, supervising students doing capstone project and thesis. He also contributes to designing and building up the curriculum of Electrical Engineering, and master programmes at QNU. His research interests include Neural network, Robust parameter design, Reliability, Power system optimization, Power system forecasting and Power system simulation and analysis. He is also a member of editorial board of International Journal of Quality Engineering and Technology, from Inderscience Publishers.  **Relevant publications**  1) Ki Hyun Kim, **Tuan-Ho Le**, Hee Kyung Oh, Bora Heo, Jeonghyun Moon, Sangmun Shin, and Seong Hoon Jeong, “Protective microencapsulation of β-lapachone using porous glass membrane technique based on experimental optimization” *Journal of Microencapsulation*, 34 (6), 545-559 (2017).  2) Min Chae Kim, **Tuan-Ho Le**, Cheng Bao, Jin Tae Kim, Hyang Sook Chun, Sangmun Shin, and Hong Jin Lee, “Robust optimization for the simultaneous enhancement of nitric oxide inhibition and reduction of hepatotoxicity from green tea catechins”, *Food Science and Technology*, 1-10 (2017).  3) Doan Duc Tung and **Tuan-Ho Le**, “A statistical analysis of short-term wind power forecasting error distribution”, *International Journal of Applied Engineering Research*, 12 (10), 2306 – 2311 (2017)  4) Gyuhyo Choi, **Tuan-Ho Le**, and Sangmun Shin, “A new multidimensional design space identification method for a quality oriented drug development process”, *Total Quality Management & Business Excellence*, 27 (7-8) (2016).  5) Sangmun Shin, Thanh-Tra Hoang,**Tuan–Ho Le**, and Moo-Yeon Lee, “A new robust design method using neural network”, *Journal of Nanoelectronics and Optoelectronics*, 11 (1), 68-78 (2016).  6) Yongsun Choi, Youngik Choi, **Tuan-Ho Le**, Sangmun Shin, and Daeyoung Kwan, “Groundwater levels estimation and forecasting by integrating precipitation based period dividing algorithm and response surface methodology”, *Desalination and Water Treatment*, 52, 1-11 (2014). | | |
| Dr. DANG Nguyen Thoai | | DANG Nguyen Thoai is Vice Director of the Center for Student Support and Business Relations, Quy Nhon University. He is also a lecturer and researcher at the Department of Chemical and Food Engineering, Faculty of Natural Sciences, Quy Nhon University, Vietnam. He obtained his PhD in Chemical Engineering at Prince of Songkla University, Thailand in 2020. His research interest is in Biofuel, Petrochemistry, Chemical Thermodynamics and Chemical Kinetics.  **Relevant publications**  1) **D. N. Thoai**, I. Chanakaewsomboon, K. Prasertsit, S. Photaworn, C. Tongurai, “A novel inspection of mechanisms in conversion of refined palm oil to biodiesel with alkaline catalyst”, *Fuel*, 256, 115831 (2019).  2) **D. N. Thoai**, C. Tongurai, K. Prasertsit, A. Kumar, “Review on biodiesel production by two-step catalytic conversion”, *Biocatalysis and Agricultural Biotechnology*, 18, 101023 (2019).  3) **D. N. Thoai**, C. Tongurai, K. Prasertsit, A. Kumar, “Predictive capability evaluation of response surface methodology and artificial neural network in modeling and optimization of biodiesel production”, *International Journal of Applied Engineering Research*, 13 (10), 7529-7540 (2018).  4) **D. N. Thoai**, C. Tongurai, K. Prasertsit, A. Kumar, “A novel two-step transesterification process catalyzed by homogeneous base catalyst in the first step and heterogeneous acid catalyst in the second step”, *Fuel Processing Technology*, 168, 97– 104 (2017).  5) **D. N. Thoai**, S. Photaworn, A. Kumar, K. Prasertsit, C. Tongurai, “A Novel Chemical Method for Determining Ester Content in Biodiesel”, *Energy Procedia*, 138, 536-543 (2017). | | |
| Dr. NGUYEN Thanh Binh | | NGUYEN Thanh Binh received his Bachelor’s degree in Computer Science from Quy Nhon University in 2006, the Master degree in Computer Science from Computer Science Institute for the Francophonie Vietnam in 2009, and PhD in Computer Science at University of Orleans France in 2018. He is working as a Vice Dean of the Department of Information Technology in Quy Nhon University, Vietnam. His research interests are semantic knowledge base, quality of data, and Data Science.  **Relevant publications**  1) Jacques Chabin, Mirian Halfeld-Ferrari, and **Thanh Binh Nguy**en, “Querying Semantic Graph Databases in View of Constraints and Provenance”, *Technical report, LIFO- Université d'Orléans*, RR-2016-02, (2016)  2) Béatrice Markhoff, **Thanh Binh Nguyen**, and Cheikh Niang, “When it comes to querying semantic cultural heritage data. In New Trends in Databases and Information Systems” - *ADBIS 2017 Short Papers and Workshops, AMSD,*  *BigNovelTI, DAS, SW4CH, DC, Nicosia, Cyprus, September 24-27, 2017, Proceedings*, 384-394 (2017).  3) Mostafa Bamha, Jacques Chabin, Mirian Halfeld-Ferrari, Beatrice Markhoff, and **Thanh Binh Nguyen**, “Personalized Environment for Querying Semantic Knowledge Graphs: a Map Reduce Solution”, *Technical report, LIFO- Université d'Orléans*, RR-2017-06 (2017).  4) Jacques Chabin, Mirian Halfeld-Ferrari, Béatrice Markhoff, and **Thanh Binh Nguyen**, “Validating data from semantic web providers”, In A Min Tjoa, Ladjel Bellatreche, Stefan Bi­, Jan van Leeuwen, and Jirí Wiedermann, editors, SOFSEM 2018: Theory and Practice of Computer Science, pages 682-695, Cham, 2018. Springer International Publishing. | | |
| Dr. NGO Minh Khoa | | NGO Minh Khoa received MSc and Ph.D. degrees in Electrical Engineering from University of Science and Technology – The University of Danang, Danang City, Vietnam, in 2010 and 2017, respectively. Currently, he is a lecturer in the Faculty of Engineering and Technology, Quy Nhon University, Quy Nhon City, Binh Dinh, Vietnam. His research interests include power quality, signal processing, and smart grid.  **Relevant publications**  1) Doan Duc Tung, **Ngo Minh Khoa**, “An Arduino-Based System for Monitoring and Protecting Overvoltage and Undervoltage”, *Engineering, Technology & Applied Science Research*, 9 (3), 4255-4260 (2019).  2) **Ngo Minh Khoa**, Doan Duc Tung, “Locating Fault on Transmission Line with Static Var Compensator Based on Phasor Measurement Unit”, *Energies*, 11, 2380 (2018).  3) **Ngo Minh Khoa**, Doan Duc Tung, “Modeling for Development of Simulation Tool: Impact of TCSC on Apparent Impedance Seen by Distance Relay”, *Engineering, Technology & Applied Science Research*, 8 (5) 3332-3337 (2018).  4) **Ngo Minh Khoa**, Doan Duc Tung, “An Extended Kalman Filter for Detecting Voltage Sag Events in Power Systems”, *Journal of Electrical Systems*, 14 (2), 192-204 (2018).  5) Dinh Thanh Viet, Nguyen Huu Hieu, **Ngo Minh Khoa**, “A Method for Monitoring Voltage Disturbances Based on Discrete Wavelet Transform and Adaptive Linear Neural Network”, *International Review of Electrical Engineering*, 11 (3) (2016). | | |
| CAO Tan Binh | | Cao Tan Binh is Vice Director of Center of Economics and Accounting, Quy Nhon University, Vietnam; and a lecturer at the Department of Economics and Accounting, Quy Nhon University, Vietnam. He is currently a PhD Student in Probability theory and mathematical statistics, VNU University of Science, Vietnam. His research interests are Statistics, Financial mathematics, Econometrics, Stochastic Process.  **Relevant publications:**  1) **Cao Tan Binh**, Luu Hoang Duc, Phan Thanh Hong “On the exponential stability for a class of stochastic diﬀerential delay equations with fractional Brownian noises”, *Stochastic Analysis and Applications,* (2019)Preprint.  2) Phan Thanh Hong, **Cao Tan Binh**, **“**A note on exponential stability of non-autonomous linear stochastic differential delay equations driven by a fractional Brownian motion with Hurst index > ½”, *Statistics and Probability Letters*, 138, 127–136 (2018).  3) **Cao Tan Binh**, Tran Bao Duy, Truong Thi Thanh Phuong, “Some aspects of big data analysis in economics”, *National Scientific Conference: Vietnam Accounting - Auditing and Economy with the Industrial Revolution 4.0*, Quy Nhon University (2017).  4) Nguyen Ngoc Tien, **Cao Tan Binh**, Truong Thi Thanh Phuong,“On the model of European option pricing on Vietnam derivatives market”, *National Scientific Conference: Vietnam Accounting - Auditing and Economy with the Industrial Revolution 4.0*, Quy Nhon University (2017).  5) Thai Thuan Quang, **Cao Tan Binh**, “Embeddings of  into the space of B-value holomorphic”, *Journal of Science, Quy Nhon University*, 3 (1), 65-74 (2009). | | |

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| **Partner number** | **958116434** | | | **P2** |
| **Organisation name & acronym** | Nha Trang University (NTU) | | | |
| **F.3.1 - Aims and activities of the organisation**  *Please provide a short presentation of your organisation (key activities, affiliations, size of the organisation, etc.) relating to the area covered by the project* (limit 2000 characters)*.* | | | | |
| Nha Trang University, established in 1959 and located in the southern central of Vietnam, with the mission to train highly qualified manpower, carry out research and technology transfer, and provide services in various areas to meet the demand of socio-economic development, with fisheries as the major strength. NTU enrolls more than 16,000 students in 6 doctoral programmes, 15 master's degree programmes, and 32 bachelor degree programmes. The university has a staff body of over 650 members, 26% having doctoral degrees and 100% teaching staff having master’s or doctoral degrees.  NTU constantly expands and develops cooperation with partners in compliance with the process of development and integration of the country. The collaborative relationships focus on the goal of improving the capacity of the university through joint training, scientific research, exchange of scientific information, professional development, and building infrastructure and facilities. NTU is now the partner of over 60 companies in Vietnam and 80 international organizations, universities and institutes in many countries such as Norway, Denmark, France, Iceland, Belgium, Germany, Portugal, Russia, Czech Republic, China, Japan, India, Canada, USA, Australia and other countries in the ASEAN. Many meaningful international collaborative activities have taken place such as the exchange of staff and students, scientific information, and management experience; the cooperation in training and implementation of research projects, the exchange of new technologies, and the organization of seminars and scientific conferences.  Four faculties and departments will participate in this project, including the IT Faculty, the Finance and Accounting Faculty, the Electrical-Electronic Engineering Faculty and the Chemistry Technology Department. The IT Faculty has 38 lecturers, offering 2 bachelor programmes to 1,200 students. The Finance and Accounting Faculty has 39 lecturers, offering 3 bachelor programmes to 2,000 students. The Electricity-Electronic Engineering Faculty has 20 lecturers, offering 1 bachelor programme to 550 students. The Department of Chemistry Technology has 11 lecturers, offering 1 bachelor programme to 100 students and teaching chemistry as a subject to all students of engineering majors in the university. | | | | |
| **Only for Partner Country institutions, please provide information on:**   |  |  | | --- | --- | | Number of Memoranda of Cooperation/Understanding the HEI has signed with HEIs outside their own country? | 80 | | Number of students | 16,000 | | Number of Bachelor degrees offered | 32 | | Number of Master degrees offered | 15 | | Number of PhD degrees offered | 6 | | Have you participated in CBHE?  If yes, list CBHE projects titles and reference numbers.  Describe curricular/ courses developed/ modernised, if any (name of the subject area and courses titles) | NTU has participated in some CBHE projects such as:  1- Tuning environmental competences in Asian fishery education for sustainable development - TUNASIA (2017-CHBE-586144). A curriculum for master degree programme on Environmental Management of Fisheries Enterprises has been designed and applied to teach student. In which, NTU contributes to develop three courses: (1) Didactics of environmental management education in fisheries, (2) Strategies for sustainability of transdisciplinary environment education, and (3) Aquaculture internationally.  2 - Strengthening the Vietnamese Higher Education System to improve graduates’ employability and entrepreneurship skills – V2WORK (2017-CHBE-586252). In this project, 8 online courses on entrepreneurship have been developed for undergraduate level. NTU contributes to develop two courses: (1) Presentation and public speaking skills and (2) Communication and negotiation skills. | | | | | |
| **F.3.2 – Role of your organisation in the project**  *Please describe also the role of your organisation in the project* (limit 1000 characters)*.* | | | | |
| As a partner of the project, NTU will actively cooperate with the project partners and participate in all related activities of the project. NTU will ensure to mobilize capable faculty and staff as well as facility necessary to carry out the project successfully. NTU will take part in all work packages assigned by the coordinator and make sure all activities and expense of the project will follow the national legal rules as well as the sponsor’s regulation.  NTU will be the lead organization of the WP3 (Curriculum design and upgradation). In addition, NTU will support the implementation of all other work packages including WP1 (Identify curriculum gaps and potential enterprises for cooperation), WP2 (Establish and strengthen the cooperation between universities and enterprises), WP4 (Build up a cloud-based simulation center for professional education), WP5 (External evaluation), WP6 (Campaign to raise the public awareness toward the university-enterprise cooperation) and WP7 (Project management). | | | | |
| **F.3.5 – Strengthening of relations between HEIs and the wider economic and social environment** *(only for Partner Country institutions)*  *Please fill in if you are applying for this type of project and define clear the activities to be held in your institution* (limit 2000 characters) | | | | |
| NTU will be leader of WP3. In this WP, NTU will be responsible for (i) upgrading existing courses or building new ones, (ii) inviting EPU professors and experts of local enterprises to deliver lectures, (iii) arranging travels, (iv) identifying QNU staff to local enterprises and EU and (v) building up start-up course.  In addition, NTU will be the participant of other work packages in the project. In the WP1, NTU will participating in (i) standardizing the questionnaires, (ii) supporting the curriculum gap survey and (iii) sending staff members to the workshop, assigned by TNU. In the WP2 organized by DUT, NTU will also participate in signing MoUs with enterprises and send ??? students to have internship and to do capstone projects at enterprises. Within the WP4 leading by QNU, NTU give suggestions about specialized softwares in the fields of ACEI and need-to-buy items for the clouding computing system. Then, the NTU staff members will be send to QNU to be trained to use the cloud-based simulation center. In the WP6, NTU will participate in raising the public awareness about university-enterprise cooperation throughout several activities, such as job fair organization and start-up contest organized by leading institution. In the first year of the project, NTU will organize one steering committee meeting as a part of the WP7. | | | | |
| **F.3.6 – Expected results and impact** *(only for Partner Country institutions)* | | | | |
| What are the expected tangible results from the project in your HEI? | | | The following tangible results are expected from the projects at NTU:  - Three training programmes in the fields of Accounting, Chemical Engineering and Electrical Engineering at NTU will be updated with the cooperation of the enterprises. Enterprises participate in training, accepting students for internships. They will evaluate the training programme that is relevant to reality.  - In the process of programme upgrading, lecturers will have the opportunities to receive trainings and update the new technology, teaching skills and English language proficiency with European partners.  - A network between the participating universities is established in the consortium in the central area of Vietnam.  - An innovative model of cooperation between participating universities and enterprises is created; and relationship between enterprises and the university is further strengthened. The university and the enterprise proactive make an annual plan of the number of students, the time and the content of internships  - Students will benefit from the changes in the curriculum as they have more time to study outside at enterprises and to practice what they study at the factories and departments of the enterprises. So, students will improve their soft skills and work experience to prepare better for future jobs.  - Students will be actively supported by the technical staffs of the enterprise. It helps them approach the new equipment and the technological process at the enterprise. These will be helpful for them to develop good start-up ideas.  - Lecturers will also benefit from the cooperation with enterprises, as this will bring them more opportunities to transfer their research results and receive funding from business for their research projects.  - The project will produce quality practice reports, evaluation reports, final report which could be helpful for policy makers and all relevant stakeholders. | |
| How will the impact of these results be measured in your HEI? | | | The impact of these results will be quantitatively and qualitatively identified as follows:  - Job surveys and reports on numbers of graduates who get jobs in the focused areas in the project;  - Surveys and reports on the satisfaction of enterprises with the quality of graduates;  - Surveys and reports on awareness and commitment of the stakeholders on university-enterprise cooperation;  - Survey and report on student’s perceptions to curriculum on entrepreneurship spirit and start-up ideas;  - Number of enterprises that enters into agreements with the university and provides funding for research of lecturers;  - Number of students who receive internship placements in enterprises during the project;  - The number of students participating in a start-up and a successful start-up following the development of the project;  - The cloud-based simulation center used by students;  - The number of invited professors from EPU and experts from enterprises. | |
| What financial means and human and other resources will be provided to sustain these results after the project ends? | | | - The universities will organise crowdsourcing campaign, which will include an annual appeal to further support the project.  - Co-financing of the project is provided by university’s commitment and the universities' funding circles and creates the conditions for implementing the results (purchase of equipment after the end of the project, assembly and maintenance of rooms and equipment). The university’s contribution and funding circles will support the further development (training of the university staff, and dissemination activities and maintenance of training programmes).  - Through the project, capability of university staff will be enhanced. After that, they will then share their knowledge with other university staff. In this way, the project will continue to reach an additional indirect beneficiary after official project activities are completed.  - The equipment purchased through the project will be used for teaching and learning in the following years.  - The sustainability of the project is ensured by training courses updated and developed in the projects. After the project is finished, these training courses will continue to be offered by the partner involved. | |
| **F.3.7 - Operational capacity: Skills and expertise of key staff involved in the project**  *Please add lines as necessary.* | | | | |
| **Name of staff member** | | ***Summary of relevant skills and experience, including where relevant a list of recent publications related to the domain of the project.*** | | |
| NGUYEN, Thanh Cuong | | NGUYEN Thanh Cuong obtained his PhD in Finance and Banking at University of Economics and Law, Vietnam National University, Ho Chi Minh City in 2015. He is currently Dean of the Faculty of Accounting & Finance, Nha Trang University, Vietnam. He is a Senior Lecturer and Researcher at the Faculty of Accounting and Finance, Nha Trang University. His research interests are Corporate Finance and Behavioral Finance (Capital Structure and Firm Value, Leverage and Investment Decisions, Working Capital Management and Corporate Profitability,..), Banking (Market Risk, Credit Risk, Liquidity Risk, Operational Risk), Cost Accounting and Management Accounting and Earning Management, Auditing and Accounting Information Systems, Econometrics (threshold regression models).  **Selected publications**  1) **Nguyen Thanh Cuong**, Bui Manh Cuong, Pham Dinh Tuan, “Corporate Capital Structure Adjustments: Evidence from Vietnam Stock Exchange Market”, *Journal of Asian Finance, Economics and Business*, 6 (3), 41-53 (2019).  2) **Nguyen Thanh Cuong**, Nguyen Huu Manh, “Modeling Stock Price Volatility: Empirical Evidence from the Ho Chi Minh City Stock Exchange in Vietnam”, *Journal of Asian Finance, Economics and Business*, 6 (3), 19-26 (2019).  3) **Nguyen Thanh Cuong**, “Optimal Cash Holding Ratio for Non-Financial Firms in Vietnam Stock Exchange Market”, *Journal of Risk and Financial Management*, 12 (2), 104-117 (2019).  4) **Nguyen Thanh Cuong**, Nguyen Thi Thanh Ha, “Influence of Financial Ratios on Earnings Management: Evidence from Vietnam Stock Exchange Market”, *Journal of Insurance and Financial Management*, 4 (1), 57-77, (2018)  5) Phan Huy Tam, **Nguyen Thanh Cuong**, “Effectiveness of Investment Strategies Based on Technical Indicators: Evidence from Vietnamese Stock Markets”, Journal of Insurance and Financial Management, 3 (5), 55-68 (2018). | | |
| NGUYEN, Van Huong | | NGUYEN Van Huong obtained his PhD in accounting at University of Economics Ho Chi Minh City (Vietnam) in 2019. He is currently Deputy Head of the Faculty of Accounting and Finance. He is a lecturer and researcher at **Accounting Department, Nha Trang University.** His research interests are earning management, financial restatements, Disclosure of information in financial statements of Vietnamese listed firms and accounting policy changes.  **Selected publications**  1) Nguyen Viet, **Nguyen Van Huong**, “The impact of firm’s characteristics on profit adjustment after auditing: a case of listed firms in Vietnam”, *Journal of Economic Development*, 28 (5), 32–55 (2017).  2) **Nguyen Van Huong**, “Earning pressure and the restated financial statements: evidence in Vietnam”,*Journal of Economic and Development*, 229, 35-42. (2017).  3) **Nguyen Van Hương**, “Tax Policy Changes and Earnings Management: TheCase Of Vietnam”,*The 3rd International Conference on Finance and Economics (ICFE 2016)*, 479 – 487, June 15th - 17th, 2016, Ho Chi Minh City, Vietnam.  4) **Nguyen Van Huong** & et al, “The impacts of firm's characteristics on the inaccuracy between the non-audited and audited financial reports with regards to the listed firms in Vietnam”, Nha Trang university-level scientific research projects, 2017 (Leader).  5) **Nguyen Van Huong** & et al*,* The impact of firm’scharacteristics on the financial restatements : the case of Vietnam, Conference: Financial - accounting policies in the context of integration, 109 - 121, Department of Accounting - University of Economics Ho Chi Minh City and Faculty of Accounting and Finance - Nha Trang University, May 2017. | | |
| PHAM, Thi Thu Thuy | | PHAM Thi Thu Thuy obtained PhD in Computer Engineering in 2012 from Kyung Hee University, Korea. She is currently a lecturer at Department of Information System, Faculty of Information Technology, Nha Trang University, Vietnam. Her research interest includes Database management systems, GIS technology, XML and Semantic Web, Ontology, Semantic Computation, Text mining and Computational Statistics.    **Selected publications**  1) **Pham Thi Thu Thuy**, Young-Koo Lee, Sungyoung Lee, “A Semantic Approach for Transforming XML Data into RDF Ontology”, *Wireless Personal Communications*, 73 (4), 1387–1402 (2013).  2) **Pham Thi Thu Thuy**, Young-Koo Lee, Sungyoung Lee, “Semantic and Structural Similarity Analysis for Integration of Ubiquitous XML Healthcare Data”, *Journal of Personal and Ubiquitous Computing*, 17 (7), 1331-1339 (2012).  3) **Pham Thi Thu Thuy**, Young-Koo Lee, Sungyoung Lee, S-Trans: Semantic Transformation of XML Healthcare Data into OWL Ontology, Knowledge-Based Systems, 2012.  4) **Pham Thi Thu Thuy**, Computing the Similarity between Duplicate Elements in XML Schema, International Journal of Advancements in Computing Technology, 2015  5) **Pham Thi Thu Thuy**, RDB2OWL: An improved method for converting relational databases into OWL, DLU Journal of Science, Vol 7, No 2, 2017, 129-141.  **Relevant projects**  1) School-level scientific research topics – “*Application of GIS technology and mobile technology on smartphones supporting fishing vessels operating at sea*”, Nha Trang Unvierstiy (2015-2017).  2) School-level scientific research topics – “*Building practical computer room management software at Nha Trang University*”, Nha Trang Unvierstiy (2018- July, 2019). | | |
|  | | DOAN Vu Thinh obtained Master of Science in Computer Engineering in 2012 from Hanoi University of Technology and Science. He is currently a lecturer at Department of Software Engineering, Faculty of Information Technology, Nha Trang University, Vietnam. His research interest inludes WebGIS, Bioinformatic, Advance genomic analysis.  **Selected publications**   1. B. T. Dang, Q. H. D. Vu, E. E. Biesack, **T. V. Doan**, O. T. Truong, T. L. Tran, A. S. Ackiss, B. L. Stockwell, K. E. Carpenter, “Population genomics of the peripheral freshwater fish Polynemus melanochir (Perciformes, Polynemidae) in a changing Mekong Delta”, Journal of *Conservation Genetics*, 20(5), 961–972 (2019). 2. Truong Thi Oanh, **Doan Vu Thinh**, Dang Thuy Binh, “Distribution and phylogenetic relationships of snappers (Lutjanidae) based on mitochondrial DNA sequences”, *Journal of Fisheries Science and Technology*, Special issue, 160-166 (2015). 3. **Doan Vu Thinh**, Dang Thuy Binh, “WebGIS for Reef Fishes Biodiversity at Nha Trang and Cam Ranh Bays in Khanh Hoa Province, Vietnam”, Conference proceeding of International Conference on Biological, Environment and Food Engineering, 54-57 (2015).   **Relevant projects**   1. Project participant “*Conservation Genetics for Improved Biodiversity and Resource Management in a Changing Mekong Delta*” (code number: P7-200) NFS and USAID funding (2013 -2015). 2. Project participant “*Building a Mekong River Genetic Biodiversity Research Network* (code number: 3-100) funded by NFS and USAID (USA). 3. Project participant “Advanced Genomic Support for Management Decisions in the 3-S River Basin” funded by NFS and USAID (USA). | | |
| NGUYEN, Van Hoa | | Nguyen Van Hoa got bachelor and master’s degrees in chemistry, Hanoi National University and Dalat Unversity, Vietnam in 2001 and 2008, respectively. He got a Ph.D. degree in Chemical Engineering, Yeungnam University, Korea in 2012. Afterward, he has experienced as research professor at School of Chemical Engineering, Yeungnam University for 4 years. Now, he is lecturer and director of experiments and practices, Nha Trang University. His research interests are extraction, characterization and application of value-added products from seafood by-products; preparation and applications of nanomaterial and nanocomposites. He has published over 55 ISI papers, 10 patents, and three book chapters.  **Selected publications**   1. V.H. Nguyen, B.K. Kim, Y. L. Jo, J.J. Shim. European Polymer Journal 46 (2010) 2190-2198 2. V.H. Nguyen, J.J. Shim,. Electrochimica Acta 166 (2015) 302-309. 3. V.H. Nguyen, C. Lamiel, J.J. Shim,. Electrochimica Acta 161 (2015) 351-357. 4. V.H. Nguyen, C. Lamiel, D. Kharismadewi, V.C. Tran, J.J.Shim. Journal of Electroanalytical Chemistry 758 (2015)148-155.   J.J. Shim, V.H. Nguyen. Patent No.: US 9,928,967 B2. | | |
| TRAN, Quang Ngoc | | Dr. TRAN Quang Ngoc received his PhD degree in the Faculty of Science and Technology, University of Le Mans, France, in 2007. He worked as a postdoctoral researcher in the Institute of Radical Chemistry, University of Aix-Marseille, France (from 2008 to 2009 and 2011-2012). Currently, he is a lecturer and researcher, head of Department of Chemical Engineering, Nha Trang University. His research interests include the synthesis and characterization of biodegradable polymers.  **Selected publications**   1. Nguyen Van Hoa, Tran Thi Hoang Quyen, Nguyen Van Hieu, **Tran Quang Ngoc**, Phan Vinh Thinh, Pham Anh Dat, Hoang Thi Trang Nguyen, “Three-dimensional reduced grapheme oxide-grafted polyaniline aerogel as an active material for high performance supercapacitors”, Synthetic Metals, 223,192–198 (2017) 2. D. Derouet, **Q.N. Tran**, H Ha Thuc, “Synthesis of polymer-grafted natural rubber by radical photopolymerization of vinyl monomers initiated from the rubber chains”, Journal of Applied Polymer Science, 114,2149–2160 (2009) 3. D. Derouet, **Q.N. Tran**, J. M. Leblanc, “Physical and mechanical properties of poly(methyl methacrylate)-grafted natural rubber synthesized by methyl methacrylate photopolymerization initiated by N,N-diethyldithiocarbamate functions previously created on natural rubber chains”, Journal of Applied Polymer Science, 112,788–799 (2009) | | |
| BUI, Thuc Minh | | BUI Thuc Minh received the PhD degree in Electrical Engineering from Yeungnam University, South Korea, in 2018. He is currently a vice dean and researcher at the Faculty of Electrical and Electronic Engineering in Nha Trang University, Vietnam. His research interests are in DC-DC converter for the cell balancing applications, and electric drives.  **Selected publications**   1. **Bui, T. Minh**, and Sungwoo Bae. "Active Clamped Forward based Active Cell Balancing Converter." Indian J. Sci. Technol 8, 1-6 (2015). 2. **Bui, Thuc Minh**, Myungchin Kim, and Sungwoo Bae. "Comparative Survey on Modular Cell-Equalizing Circuits for Battery Management Systems." Medico-Legal Update 18, no. 1 (2018). 3. **Bui, Thuc Minh**, Chang-Hwan Kim, Kyu-Ho Kim, and Sang Rhee. "A modular cell balancer based on multi-winding transformer and switched-capacitor circuits for a series-connected battery string in electric vehicles." Applied Sciences 8, no. 8, 1278 (2018). 4. **Bui, Thuc Minh**, Phan Xuan Le, Dinh Hoang Bach, and Nguyen Doan Quoc Anh. "Application of triple-layer remote phosphor configuration results in the color quality and luminous efficiency enhancement of WLEDs." Telkomnika 17, no. 6 (2019).   **Bui, Thuc Minh**, Phan Xuan Le, Dinh Hoang Bach, and Nguyen Doan Quoc Anh. "The usage of dual-layer remote phosphor configurations in enhancing color quality and luminous flux of WLEDs." Telkomnika 17, no. 6 (2019). | | |
| PHAN, Van Cuong | | Dr. Phan Van Cuong holds a PhD in Physics from the renowned Bergen University in Norway (2012). He got MSc in Physics from Kyungpook National University, South Korea (2008). He is currently the head of Department of Physics, Faculty of Electricity and Electronics, Nha Trang University, Vietnam. His research focuses on material sciences, including nanotechnology, in the electronics field, and is closely linked with the leading electronics networks in Vietnam.  **Relevant publications**   1. Jinsik Ju, Hayeon Won, JinJoo Jung, Junyeob Yeo, **Phan Van Cuong\***, and Do-Hyung Kim\* (\**Corresponding author*), “Enhanced X-ray excited luminescence of LaF3:Ce/CdSeS nanocomposites by resonance energy transfer for radiation detection”, *Journal of**ELECTRONIC MATERIALS*, **46**, 5319-5323, (2017). 2. **Phan Van Cuong**, Bjørn Kvamme, Tatiana Kuznetsova, and Bjørnar Jensen, “Molecular dynamics study of calcite, hydrate and temperature effect on CO2 transport and adsorption stability in geological formations”, *Molecular Physics,*  **110**, 1097-1106 (2012). 3. **Phan Van Cuong**, Tatiana Kuznetsova, Bjørn Kvamme, and Bjørnar Jensen, “Adsorption energy and stability of H2O and CO2 on calcite effect by short-range force field parameters and temperature”, *Recent Researches in Applied Mathematics and**Economics***,** 66-72 (2012). (ISBN 978-1-61804-076-3). 4. **Phan Van Cuong**, Bjørn Kvamme, Tatiana Kuznetsova, “Adsorption of water and CO2 on calcite and clathrate hydrate: the effect of short-range forces and temperature”, *INTERNATIONAL JOURNAL of ENERGY and ENVIRONMENT,* **6**, 301-309 (2012). 5. **Phan Van Cuong**, Joonghoe Dho, Hyo Yeol Park, and Do-Hyung Kim, “A sonochemical assisted synthesis and annealing temperature effect of La0.7Sr0.3MnO3 nanoparticles”, *Applied Physics A-Materials Science & Processing*, **95**, 567-571 (2009).   **Relevant projects**   * + **Vietskill project:** Innovating Vietnam’s TVET system for sustainable growth. Copenhagen Business School, from April 2020, funded by Danida, Denmark. (TVET: Technical and Vocational Education and Training).   + **SSC – Ramore project:** Molecular dynamics simulations to study the interactions between atom or molecule and surface at the Department of Physics and Technology, University of Bergen, Norway, 2009-2012.   + **Brain Korea 21** (BK21): Synthesis, characterization, and application of nanomaterials at the Nano Applied Physics Laboratory, Kyungpook National University, South Korea, 2006-2008.   **TR2004-33-06:** Designing, manufacturing data reception, storage and processing equipment, and displaying the experiment outcome by Laser diffraction, at the Department of Physics, Nha Trang University, Vietnam, 2004-2005. | | |
| NGUYEN Thi Ngan | | **Nguyen Thi Ngan** received her doctoral degree in Cultural Studies in Education at Ohio University, USA in 2011. She is now serving as the Vice Director of the External Cooperation Department, Nha Trang University (NTU), while also serves as a faculty member of the Faculty of Foreign Languages at NTU. Her main duties include initiating and promoting collaborations between NTU and domestic and international partners in training and research besides providing support for international students and researchers coming to work and study at NTU. She also participates in project management as coordinator or secretary. Regarding research, she is interested in second and foreign language education issues, especially EFL. Ngan Nguyen was a recipient of the Fulbright scholarship, and winner of other scholarships such as A. Margaret Boyd Overseas Scholarship and the P.E.O. International Peace Scholarship.  **Projects:**   * Capacity Building for Junior and Female Staff at NTU (Norwegian Embassy) - *project coordinator* * Promoting Entrepreneurship, Business Incubation, and Technology Transfer in Vietnamese and American Universities and Societies through Academic Collaboration (US Fulbright Alumni Fund) - *project coordinator* * Empowering Islandish and Coastal Communities to Protect and Manage Marine Resources (US Embassy) - *project coordinator* * English Access Microscholarship Program (US Department of State) – *project coordinator* * Incorporating Climate Change into Ecosystem Approaches to Fisheries and Aquaculture Management in Sri Lanka and Vietnam (NORAD) – *secretary*   **Book Chapter**  **Nguyen, N**., & Godwyll, F. (2014). Empowering education from the perspective of a language classroom. In F. Godwyll et al. (Eds.), *Perspectives on empowering education.* New York: Nova Science Publishers.  **Articles:**  ***Nguyen, N****., & Godwyll, F. (2020). Why are we not where we want to be? Dilemma of English language teachers and learners in Vietnam, Asian EFL Journal (accepted, to be published in March 2020).*  **Nguyen, N**. (2012). How English has displaced Russian and other foreign languages in Vietnam since “Doi Moi.” *International Journal of Humanities and Social Science, 2,* 259-266.  **Nguyen, N**., & Godwyll, F. (2010). Factors influencing language-learning strategy use of English learners in an ESL context. *Mid-western Researcher, 23*(4), 7-13. | | |

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| **Partner number** | 915112939 | | | | **P3** |
| **Organisation name & acronym** | Tay Nguyen Unviersity (TNU) | | | | |
| **F.3.1 - Aims and activities of the organisation**  *Please provide a short presentation of your organisation (key activities, affiliations, size of the organisation, etc.) relating to the area covered by the project* (limit 2000 characters)*.* | | | | | |
| Tay Nguyen University was established in 1977 according to the Decision No. 298/CP of November 11, 1977 signed by the Chairman of the Government Council with the mission of educating and training undergraduate and graduate-level cadre to fulfill the requirements for socio-economic development in the Central Highlands of Vietnam. The establishment of TNU is a historic event of ethnic minorities in the Central Highlands to create favorable conditions for ethnic minorities to receive higher education right in their hometown.  With the educational philosophy of “enhancing qualities and abilities of the learners”, TNU focuses on the three targets including: (i) training high quality human resources of Science and Technology in variety of fields such as Health Science and Pharmacy, Education, Forestry, Agriculture, Economics, Social Humanity, and Technology; (ii) developing and transferring technologies to communities to meet requirements of socio-economic development of Vietnam in Vietnam-Laos-Cambodia Triangle of Development in general and the Central Highlands in particular; and (iii) preserving and promoting indigenous cultures.  Over 40 years of operation, TNU becomes a multidisciplined University and hosts over 50,000 undergraduates, above 1,000 masters and 5 PhDs. Thanks to the enthusiastic lecturers and researchers, TNU has been implemented over 350 projects and researches that significantly contribute to boosting the socio-economic and technological growth in the Central Highlands of Vietnam.  . | | | | | |
| **Only for Partner Country institutions, please provide information on:**   |  |  | | --- | --- | | Number of Memoranda of Cooperation/Understanding the HEI has signed with HEIs outside their own country? | 18 | | Number of students | 8,000 | | Number of Bachelor degrees offered | 42,000 | | Number of Master degrees offered | 1,200 | | Number of PhD degrees offered | 5 | | Have you participated in CBHE?  If yes, list CBHE projects titles and reference numbers.  Describe curricular/ courses developed/ modernised, if any (name of the subject area and courses titles) | Strengthening the Vietnamese Higher Education System to improve graduates’ employability and entrepreneurship skills (V2W) [586252-EPP-1-2017-1-ES-EPPKA2-CBHE-SP (2017-3479/001-001)] | | | | | | |
| **F.3.2 – Role of your organisation in the project**  *Please describe also the role of your organisation in the project* (limit 1000 characters)*.* | | | | | |
| TNU joins in this project as a partner representative for the Central Highlands of Vietnam. In this project, TNU will connect with other universities in the middle of Vietnam, especially Quy Nhon University, to improve the qualities of human resource education in the Central Highlands of Vietnam. | | | | | |
| **F.3.3 – Curriculum development project** *(only for Partner Country institutions)*  *Please fill in if you are applying for a curriculum development project* | | | | | |
| Please confirm that no similar curricula/ courses/modules were developed/modernised in Tempus IV projects in this HEI. | | | |  | |
| **For new courses** | | | | | |
| What new courses will the project implement in your HEI? | | |  | | |
| For each course please fill the following nested table: | | | | | |
| |  |  | | --- | --- | | **Title** |  | | Level of study |  | | List of subjects and credits (ECTS or comparable credit system) for each of them |  | | Estimated date of accreditation and accreditation body |  | | Estimated starting date of the new programme |  | | Number of students to be accepted in the first year/ second year |  | | Number of teaching staff to be trained |  | | Internship /placements (if applicable) |  | | List of equipment to be purchased for this course? (if applicable) |  |   *Please copy and paste nested tables as necessary* | | | | | |
| **For updated courses** | | | | | |
| Which existing courses will be updated in your HEI? | | | Accounting course and Information Technology course. | | |
| For each course please fill the following nested table: | | | | | |
| |  |  | | --- | --- | | **Title** | **Accounting course** | | Level of study | Bachelor degree | | List of subjects and credits (ECTS or comparable credit system) for each of them | Total subjects of the course: 51 subjects or 126 credits. (1 credit= 15 periods x 50 minutes)  Lists of subjects need to be modernised:   * Professional Ethics (2 credits) * International Accounting (3 credits) * English for Accounting (3 credits) * Accounting Information System (credits) * Principles of Auditing (3 credits) * Managerial Accounting (3 credits) | | Estimated date of accreditation and accreditation body | In 2021, Center for Education Accreditation- The University of Da Nang. | | % of the modernised subjects compared to total subjects included in the course | Approximately 12% out of 51 subjects | | Number of students to be accepted in the first year/ second year | 100 students for the first year/second year. | | Number of teaching staff to be trained | 10 | | Internship /placements ( if applicable ) | 10 | | List of equipment to be purchased for this course? ( if applicable) | Eqquipments for a virtual accounting room (for teaching) |  |  |  | | --- | --- | | **Title** | Emerging Technologies in IT | | **Level of study** | Bachelor degree | | List of subjects and credits (ECTS or comparable credit system) for each of them | Fundamental Electronic,  Computer Architecture | | Estmated date of accrediation and accrediation body | June 2021 by Tay Nguyen University | | % of the modernised subjects compared to total subjects included in the course | Approximately 20% out of 34 subjects in basic professional knowledge and major of information technology | | Number of students to be accepted in the first year/second year | 80 students in the second years (since the subects will be taught for senior students) | | Number of teaching staff to be train | 1 | | Intership/placements (if appliable) | 80 | | List of equipment to be purchase for this course? (if appliable) |  |  |  |  | | --- | --- | | **Title** | Embeded System programing | | **Level of study** | Bachelor degree | | List of subjects and credits (ECTS or comparable credit system) for each of them | Fundamental Electronic,  Computer Architecture,  C Programming language | | Estmated date of accrediation and accrediation body | June 2021 by Tay Nguyen University | | % of the modernised subjects compared to total subjects included in the course | Approximately 20% out of 34 subjects in basic professional knowledge and makor of information technology | | Number of students to be accepted in the first year/second year | 80 students in the second years (since the subects will be taught for sophomore students) | | Number of teaching staff to be train | 1 | | Intership/placements (if appliable) | 80 | | List of equipment to be purchase for this course? (if appliable) | kit to developing embeded system as Arduino kit, modules for Bluetooth, Wifi, Ethernet connection, Realtime Clock, Display system (LED 7 segment, LCD 16x2, touch graphics), board test, power supply, etc | | | | | | |
| **F.3.4 – Modernisation of governance, management and functioning of HEIs** *( only for Partner Country institutions)*  *Please fill in if you are applying for this type of project and define clear the activities to be held in your institution* (limit 2000 characters) | | | | | |
|  | | | | | |
| **Provide information on ( if applicable)** | | | | | |
| List the number of existing centres/networks in your HEI | | |  | | |
| Is the centre to be created a new one or an update? | | |  | | |
| If new, why is a new centre necessary? If updated, why is an updated centre necessary? | | |  | | |
| Where will the centre be located in the institution? | | |  | | |
| Will this infrastructure be made available to the centre after the project ends? | | |  | | |
| How many people will be employed in the centre? | | |  | | |
| Will the institution fund these posts after the project ends? | | |  | | |
| How many administrative staff will be trained? | | |  | | |
| Which procedures will be updated /introduced in the institution? | | |  | | |
| **F.3.5 – Strengthening of relations between HEIs and the wider economic and social environment** *( only for Partner Country institutions)*  *Please fill in if you are applying for this type of project and define clear the activities to be held in your institution* (limit 2000 characters) | | | | | |
| Although TNU has established relationships with entrepreneurs, these relationships are not diverse and tight enough to create a good learning and practising environment for students. Therefore this project will enhance these relationships in terms of efficiency for lecturers, students and entrepreneurs so that students, especially those come from ethnic minority groups in the remote areas, have the chance to get empirical knowledge from entrepreneurs as well as understanding the requirements from their future employers.  In addition, TNU’s lecturers can get the opportunities to identify the needs of entrepreneurs and acquire practical knowledge to improve their lectures. Moreover, entrepreneurs can take the chance to reduce the potential cost for retraining their future human resources and get access to the updating methods of management and operation in all over the world.  These factors will help establish the professional environment for researching and cooperating and boosting the efficiency of training and educating. Therfore, students can get sufficient knowledge and skills to become parts of continuously changing world. | | | | | |
| **F.3.6 – Expected results and impact** *( only for Partner Country institutions)* | | | | | |
| What are the expected tangible results from the project in your HEI? | | | * Enhancing the relationship between TNU’s lecturers and students with entrepreneurs.   The tangible results from this project for each target groups are as follow:  For lecturers:   * 80% lecturers upgrading theoretical and empirical knowledge. * 80% lecturers having opportunities to get the international standards of teaching and instructing.   Students:   * 80% students being motivated to “think out of the box” * 90% graduates meeting the requirements from their future employers. * 30% students being able to start their own businesses.   Entrepreneurs:   * 100% entrepreneurs in the network reducing potential cost for retraining their newly recruited employees. * 100% entrepreneurs in the network having opportunities to contribute back to society by supporting and mentoring startups among students. * 100% entrepreneurs in the network having environment to update knowledge for running and managing their business operations. | | |
| How will the impact of these results be measured in your HEI? | | | For students:   * Impacts on students will be tracked with post-graduate surveys which well designed questionaires. * The number of students are beneficial from the project. * Satisfaction of the recruiters.   For lecturers:   * The impacts measured from: students, and entrepreneurs with surveys. * Self-evaluation of lecturers. * Using KPIs of TNU to measure the performance of lecturers. * The number of lecturers trained and exchanged   For entrepreneurs:   * Impacts are measured by the satisfaction of entrepreneurs when involving in the network * The amount of money saved from training newly recruited employees. * The number and diversity of labor force supply from TNU in the region.   Overal impacts will be measured by:   * The number of subjects will be updated. * The number of experts from EU to be invited. * The number of experts from domestic companies teaching courses. * The number of labs are updated. | | |
| What financial means and human and other resources will be provided to sustain these results after the project ends? | | | After the project ends, TNU can maintain the impacts of the project with its current regular budget.  TNU needs supports to develop relationship with European universities for exchaging teaching staff and knowledge. | | |
| **F.3.7 - Operational capacity: Skills and expertise of key staff involved in the project**  *Please add lines as necessary.* | | | | | |
| **Name of staff member** | | ***Summary of relevant skills and experience, including where relevant a list of recent publications related to the domain of the project.*** | | | |
| 1. Nguyen Dinh Sy | | Nguyen Dinh Sy is the deputy head of Science and International Relations Department, Tay Nguyen University. He obtained his PhD degree at Chonnam National University in Korea. From 2018 to now, He is in charge of international relations of Tay Nguyen university. His major is Applied Biology. His research interests in Plant Stress Response and DNA expressing regulation.  Relevant publications   1. **N. D. Sy**: Abiotic stresses affect differently the intron splicing and expression of chloroplast genes in coffee plants (Coffea arabica) and rice (Oryza sativa), Journal of Plant Physiology, 201, 85-94 (2016) 2. **N. D. Sy**: An endoplasmic reticulum-localized Coffea arabicaBURP domain-containing protein affects the response of transgenic Arabidopsis plants to diverse abiotic stresses. Plant Cell Report, 36, 1829-1839 (2017) | | | |
| 1. Bui Thi Hien | | Bui Thi Hien received her Master degree in the Vietnam national university of agriculture (HUA) in 2003. She was the head of the Department of Finance and Banking, Faculty of Economics, Tay Nguyen University from 2006 to 2011. Then, she has been the head of the Department of Accounting in the Faculty of Economics from 2012 to present. Her current lessons and research interests are Banking, Accounting and Finance.  Relevant publications:   1. **B. T. Hien**, Nguyen Thi Tra Giang, Pham Thanh Hung, Nguyen Thi Phuong Thao: Study on the impact of auditing company change on the earnings management behavior companies in Ho Chi Minh stock exchange, Tay Nguyen Journal of Science, Volume 38, p110-114 (2019). 2. **B. T. Hien**: The results of educating accounting students at Tay Nguyen University, Tay Nguyen Journal of Science, Volume 26, p104-107 (2017). 3. **B. T. Hien**, Vo Xuan Hoi, Solution to improve capital mobilization at Agribank in Dak Nong province, Tay Nguyen Journal of Science, Volume 9 (2012). 4. **B. T. Hien**, The situation of using loans in coffee producing households, Tay Nguyen Journal of Science, Volume 9 (2012). 5. **B. T. Hien**: Some issues of education and training on the Central Highlands, Base for territory – based rural development in the Central Highlands, Agricultural Publishing House, Tay Nguyen Journal of Science, p210-231 (2009) | | | |
| 1. Do Thi Thanh Xuan | | Do Thi Thanh Xuan obtained her Master Degree in International Trade and Finance at Leeds Metropolitan University. She is currently working a lectuer and researcher at the Department of Economic Information, Faculty of Economics. She has been working in the project of “Building a business incubator in Dak Lak Province” since 2018. Then, she worked as a professional fellow at the accelerator namely The Venture Center, Arkansas, USA. By implementing the YSEALI Outbound Project and inviting the Chief Strategy Officer of The Venture Center to TNU, she is establishing the collaboration between TNU and The Venture Center. Her research interests include finance, international trade, and startups.  Relevant publications:  **D. T. T. Xuan:** Developing social entrepreneur models in Dak Lak Province, Tay Nguyen Journal of Science, volume 36, p76-p81 (2019). | | | |
| 1. Nguyen Thi Nhu | | Nguyen Thi Nhu is head of Information Technololy department which belongs to Faculty of Natural and Sciences technology. She obtained her Master degree at Asian Institue Technology in Thai Lan. She works at IT departerment at Tay Nguyen University. She has been teaching bachelor courses, supervising students doing thesis. She also contributes to designing and building up new becholor progmame. Her research interests include web-based software designing and programming and e-learning.  Relevant publications   1. **Nguyen Thi Nhu**: Designing framework for mobile learning system. In: *Journal of Science of Tay Nguyen University*, volume 15 (2015) 2. **Nguyen Thi Nhu**: Data synchronization between management system and commercial website. In: *Journal of Science of Tay Nguyen University*, volume 20 (2016) | | | |
| 1. Tran Xuan Thang | | Tran Xuan Thang obtained his Master Degree in Knowledge Science at Japan Advanced Institute of Science and Technology in Japan. He is currently a lecturer and researcher at Informatics Department, Tay Nguyen University, Vietnam. His research interests include Machine Learning, Deep Learning and AI, which apply in Image Processing and Sentiment Analysis.  Relevant publications:  **Thang Tran**; Hung Ba; and Van-Nam Huynh. Measuring Hotel Review Sentiment: An Aspect-Based Sentiment Analysis Approach. In: *International Symposium on Integrated Uncertainty in Knowledge Modelling and Decision Making*. Springer, Cham, 2019. p. 393-405. | | | |

*Please copy and paste tables as necessary*