

SoTL Grant Cycle 1/2017

No.	Principal Investigator	Title of Proposed Research	Department
1	Dinesh A/L Kanesan	An Empirical Study of Active Learning Techniques in Petroleum Economics Course for Petroleum Engineering Students in Universiti Teknologi PETRONAS	Petroleum Engineering
2	Assoc Prof Dr Tun Zainal Azni Zulkifli	Implementation of Lecture Capture Technology for Enhanced Online-Learning Environment in Control System Course	Mechanical Engineering
3	Abdul Halim Abdul Latiff	Problem-based Learning for Exploration Geophysics Courses (4th Year Major in Petroleum Geoscience Program)	Geoscience
4	Azelin Mohamed Noor	A Student Centered Learning Framework for Undergraduates on the Integration of Cooperative Learning in an Oral Communication Skills Course	Management and Humanities
5	Dr Chong Su Li	Optimizing Electronic Marginalia through Microsoft Word for Draft Writing in a 14-week Academic Writing course	Management and Humanities
6	Azlinda Abdul Malik	Effective Formative Assessment for Continuous Performance Monitoring through Enhancement of Learning and Teaching Experience	Petroleum Engineering
7	Nur Arfah Abdul Sabian	A Comparative Experiment on Traditional Classroom and Flipped Classroom for Case Study Activities in Business and Cyber Law Course	Management and Humanities
8	Mazlin Idress	Implementation of Cooperative Learning to Enhance Students Problem Solving and Critical Thinking in Technical Courses	Petroleum Engineering
9	Ahmad Izuddin Zainal Abidin	Incorporating Storytelling and Animation in Teaching and Learning of Fundamental of Programming Subject	Computer and Information Sciences
10	Dr Aqsha Saenong Ibrahim	Improve Teaching and Learning Process of CDB2052 Chemical Engineering Laboratory I by Training and Video Based Learning on Lab Preparation	Chemical Engineering
11	Dr Dereje Engida Woldemichael	A Web-Based Interactive Virtual Lab for Mechanical Vibrations Course to Improve Student's Conceptual Understanding	Mechanical Engineering
12	Dr Hitham Seddig Alhassan Alhussian	Improving Student Learning Performance by Flipping Classes using Virtual Class Rooms	Computer and Information Sciences
13	Dr Jundika Candra Kurnia	Implementation of Blended Learning and Virtual Experiment using Computational	Mechanical Engineering

		Fluid Dynamics (CFD) Tools on Fluid Mechanics II Course	
14	Dr Mohammad Tazli Azizan	Scaffolding the Transition from the Teacher-Centered Towards Student-Centered Learning among the Students via Reflective Practice and Learning to Learn Strategies	Chemical Engineering
15	Dr Mazeyanti Mohd Ariffin	Study on Game-Based Learning Impacts the Computer Organization Course	Computer and Information Sciences
16	Dr Said Jadid Abdulkadir	Improving Cooperative Learning in Artificial Intelligence Courses using Cloud Based SLACK (Searchable Log of All Conversation and Knowledge)	Computer and Information Sciences
17	Khalidah Khalid Ali	Development of Active Learning Modules to Incorporate Ethics in the Teaching of Engineering and Technology Courses	Management and Humanities
18	Mazuin Jasamai	Exploring the Use of Digital Visual Materials in Teaching and Learning for Reservoir Rock and Fluid Properties (PDB 1034) and Include Virtual Laboratory Session	Petroleum Engineering
19	Mohamed Zamrud Zainal	An Implementation of Flipped Classroom using Videos and Its Effectiveness for Production Engineering Course	Petroleum Engineering
20	Samsul Ariffin Abd Karim	Continuous Quality Improvement for Calculus: High Impact Mentor-Mentee Program	Fundamental and Applied Sciences
21	Savita K. Sugathan	The Pedagogical Interventions in Enhancing Project-Based and Team-Based Learning through Self-Reflection and Peer Rating Assessment at Universiti Teknologi PETRONAS	Computer and Information Sciences
22	Dr Subarna Sivapalan	To Blend or Not to Blend: An Exploration of the Effectiveness of Traditional and Reform Continuous Professional Development (CPD) Methods as Institutional Blended Learning Training Models	Management and Humanities
23	Dr Aliza Sarlan	Enhancing Learning Experience of Requirement Engineering Course by integrating Cooperative Learning and Problem Based Learning	Computer and Information Sciences
24	Dr Sia Chee Wee	Outcome-Based Learning Flipped Classroom for Reservoir Engineering 1	Petroleum Engineering
25	Prof Dr Hussain H Al-Kayiem	Experimental Learning Kit for Wind Energy Conversion	Mechanical Engineering

SoTL Grant Cycle 2/2017

No.	Principal Investigator	Title of Proposed Research	Department
1	AP Dr Suriati Sufian	Enhancing Chemical Engineering Fundamentals through Integrated Project of Chem-E-Car	Chemical Engineering
2	Dr Nooraini Zainuddin	Continual Quality Improvement based on Active Learning and Assessment Plan through OBE for PreCalculus Course in Foundation	Fundamental and Applied Sciences
3	Roselind Wan	Flipped Classroom for a Writing Class: Addressing Academic Writing Challenges through Cooperative Learning using Padlet	Management and Humanities
4	AP Dr Maran Marimuthu	Investigating Students' Understanding and Engagement in Engineering Economics Classroom Via Video-based Case Studies	Management and Humanities
5	AP Dr Nasreen Badruddin	Active learning in Structured Programming and Interfacing using Flipped Classroom and Peer Tutors as Teaching Assistants	Electrical & Electronics Engineering
6	Dr Ena Bhattacharyya	Using Real-Life Projects and Online Collaboration as Learning Methods to Enhance Student Business Proposals in "Professional Communication Skills" (HCB 2033/HDB2033)	Management and Humanities
7	Zuraini Hanim Zaini	Students' Motivation Towards Learning Fundamental of Programming 2 Through Game Based Learning and Collaborative Learning	Centre for Foundation Studies
8	Kamal Ariff Zainal Abidin	Application Of Flipped Classrooms In The Foundation Thinking Skills Course	Centre for Foundation Studies
9	Dr Muhammad Raza UI Mustafa	A Project to Enhance Students Learning about Streamflow Measurements, Stage Discharge Relationship and Flow Simulation in HEC-HMS	Civil Engineering
10	Shakirah Mohd Taib	An Exploration of Team-based Teaching and Learning Model for Programming Courses in an Online Environment.	Computer & Information Sciences
11	Suhaila Badarol Hisham	Experimental Centric Learning Approach Using Analog Discovery Board in Instrumentation & Measurement Course	Electrical & Electronics Engineering
12	Jasmi Ab Talib	Enhancing Cooperative Problem-Based Learning (CPBL) in Geospatial Information System Subject for BTech Petroleum Geoscience	Petroleum Engineering
13	Foong Oi Mean	Implementing Active Learning in Discrete Mathematics through Mathematica Projects: A Pilot Study	Computer & Information Sciences

14	Dr Suziah Sulaiman	Supporting Students' Collaborative Learning In Operating Systems Course Using Interactive Tabletop Surface	Computer & Information Sciences
15	Dr Noreen Izza Arshad	Constructing Requirements For Ensuring The Success Of Knowledge Transfer During Independent Learning	Computer & Information Sciences
16	Ir Dr Chew Kew Hong	Assessment of Project-Based Learning Approach in the Final Year Field Development Project to Improve Students' Learning	Petroleum Engineering
17	Dr Dzeti Farhah Mohshim	Enhancing First Year Learning Experience and Understanding Through Gamification	Petroleum Engineering
18	Dr Ting Ding Hooi	Understanding and Managing Students' Expectations Towards Positive Learning Experiences	Management and Humanities
19	Dr Muhammad Ridhuan Tony Lim Abdullah	Graduate Students' Conceptions of Research Among Social Science	Management and Humanities
20	Dr Norlaili Amir	Leveraging On Technology Enhanced Active Learning (Teal) For Improvement Of Engineering Students' Engagement And Motivation In The Large Class, Multi Programmes And Text-Based Course In UTP	Mechanical Engineering