

No.	Staff Name	Faculty / Centre	Project Title	Community Name	Brief Description Of Knowledge/Technology	SDG
1	Umi Kalsum Zolkafli @ Zulkifly	Faculty of Built Environment (FBE)	Construction Skills Training Module For Youth Community of PPR Gombak Setia	Youth Community of PPR Gombak Setia	<p>This community program is named as a program where it is intended to provide basic knowledge on theoretical and practical aspects of selected construction skills to the target group. The type of construction skills will be selected based on the target community background. the target group for this programme is youth community of PPR Gombak who is aged between 16 to 30 years old. training module on the selected construction skills will be prepared based on the community background with the help from Construction Industry Development Board (CIDB) and Akademi Binaan Malaysia (ABM). This training module will be an intensive module. it will explain the installation method, specification, types and maintenance of the selected construction skills. This training module also provides exposure to participants on how to do the costing of construction trades and marketability.</p> <p>An intensive training will be conducted for five (5) days to train the participants on the selected construction skills and based on the module prepared. At the end of the training programme, participants are required to sit for a practical and written test to obtain the certificate issued by Construction Industry Development Board (CIDB) and Akademi Binaan Malaysia (ABM). Participants who passed the test will be given a tools kit for them to start doing their work in the construction industry particularly in building maintenance works.</p> <p>It is hoped that the program can benefit the youth community and can be extended to other communities in getting jobs in the construction industry and being able to rectify their house defects on their own.</p>	<ul style="list-style-type: none"> <li>• SDG 11: Sustainable Cities &amp; Communities</li> <li>• SDG 17: Partnership for the Goals</li> </ul>
2	Nur Aishah Mohd Taib	Faculty of Medicine (FoM)	Cancer Multisectoral Collaboration Network In Implementing A Pilot Cancer Early Detection Community Project To Reduce Breast And Other Cancers Early Diagnosis	<ol style="list-style-type: none"> <li>1. MBPJ Clinic's Staff</li> <li>2. MBPJ Clinic's Doctors</li> <li>3. Taman Medan's Women Residents</li> </ol>	Early detection community project to reduce breast and other cancers early diagnosis barriers	<ul style="list-style-type: none"> <li>• SDG 3: Good Health &amp; Wellbeing</li> <li>• SDG 17: Partnership for the Goals</li> </ul>

			Barriers In The Urban B40 Group In Taman Medan Pj			
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3	Sumiani Binti Yusoff	Institute of Ocean & Earth Sciences (IOES)	Urban Transformation City Towards Circular Economy & Petaling Jaya Sustainability	Seksyen 22 Petaling Jaya (Seksyen 22 Residential Association) : Seksyen 14 Petaling Jaya (SMK (P) Seri Aman	Bio-economy creates opportunities to expand the bio-based industries, provides financial support for bio-based products/ chemicals and utilises resources in a more effective and environmentally friendly way. Research attention is increasingly drawn on constructing a circular bio-economy and enhancing the value of material flows.	<ul style="list-style-type: none"> <li>● SDG 11: Sustainable Cities &amp; Communities</li> <li>● SDG 17: Partnership for the Goals</li> </ul>
4	Chong Wen Tong	Faculty of Engineering (FEng)	Sustainable Living Green Wall In The City ( <i>Dinding Hidup Lestari Dalam Bandar</i> )	SMK Assunta	The living green wall is a combination of two systems, the vertical green system consists of hydroponic air-filtering plants, and the evaporative cooling system. The type of air-filtering plant species that grows in the system is Golden Pothos ( <i>Epipremnum Aureum</i> ). golden photos is a climber plant that can be grown hydroponically, with the plant's roots submerged in the water tank, and the shoot system supported by the hydroponic mini holder	<ul style="list-style-type: none"> <li>● SDG 11: Sustainable Cities &amp; Communities</li> <li>● SDG 13: Climate Action</li> </ul>
5	Donnie Adams A/L Paramasivam	Faculty of Education (FoE)	Microsoft Innovative Teachers: Train The Trainers	Teachers of Petaling Jaya Schools	Train teachers on the integration of Microsoft 365 education technology in the learning and teaching process. The purpose is to expose teachers to Microsoft 365 education technology and resources that support the integration of blended learning in learning in line with 21st century skills, and UNESCO ICT framework for teachers.	<ul style="list-style-type: none"> <li>● SDG 4: Quality Education</li> </ul>
6	Zafirah Al Sadat Zyed	Faculty of Built Environment (FBE)	Program Cob – Dari Cooking Oil Ke Biodiesel	SMK Iskandar Shah, Melaka	This Cob program will attract the interest of school students in doing science experiments that are from the conversion of used cooking oil to biodiesel oil that can light a fire.	<ul style="list-style-type: none"> <li>● SDG 4: Quality Education</li> <li>● SDG 13: Climate Action</li> </ul>
7	Mohamad Rizal Baharum	Faculty of Built Environment (FBE)	Shove It In - Food Waste	SMK Bukit Mertajam, Pulau Pinang	This "Shove It In -Food Waste Program" will attract the interest of school students and school management in building awareness of waste management operations innovation at the school level that has an impact.	<ul style="list-style-type: none"> <li>● SDG 12: Responsible Consumption &amp; Production</li> </ul>

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						<ul style="list-style-type: none"> <li>• SDG 13: Climate Action</li> </ul>
8	Abdul Ghani Sarip	Faculty of Built Environment (FBE)	Portable Greenhouse (With NFC Technology)	SMK Tuanku Lailatul Shahreen, Perlis	This Portable Greenhouse project will expand students' science knowledge in developing and working on green farming projects (with technology) in the school environment.	<ul style="list-style-type: none"> <li>• SDG 11: Sustainable Cities &amp; Communities</li> <li>• SDG 13: Climate Action</li> </ul>
9	Muhammad Azzam Ismail	Faculty of Built Environment (FBE)	Indoor Daylighting Through Software In Line With Stem Educational Methods	SMK St. Anthony, Sarawak	Based on the researchers' expertise in green architecture, architectural education, and stem education, the knowledge to be transferred through this grant is indoor daylighting through software usage in line with stem educational methods.	<ul style="list-style-type: none"> <li>• SDG 11: Sustainable Cities &amp; Communities</li> <li>• SDG 13: Climate Action</li> </ul>
10	Aniza Abdul Aziz	Faculty of Built Environment (FBE)	Eco-LC	SMK Pengerang, Johor	<p>-Provide an understanding of building construction planning before, during and after construction is completed.</p> <p>-Site selection, building design creativity in accordance with the building materials, site placement and structural robustness.</p> <p>-Construction methods and DIY hardware requirements, building decoration with creative art.</p>	<ul style="list-style-type: none"> <li>• SDG 11: Sustainable Cities &amp; Communities</li> <li>• SDG 13: Climate Action</li> </ul>
11	Nur Farhana Azmi	Faculty of Built Environment (FBE)	Pematuhan Ke Arah 3s (Selesa, Selamat Dan Sihat)	SMK Ade Putra, Melaka	Building control covers aspects of construction monitoring and enforcement before, during and after the building is completed and occupied. With the existing expertise in the field of building control, the proposed project will contribute to the community, especially school people through the transfer of knowledge related to the minimum requirements for controlling congestion of classrooms and other spaces in institutional (school) buildings. This will not only guide school people to provide a comfortable and conducive space for the teaching and learning process (PDP), but also form a community that is knowledgeable about the existing legislation and guidelines in the country.	<ul style="list-style-type: none"> <li>• SDG 3: Good Health &amp; Wellbeing</li> <li>• SDG 4: Quality Education</li> <li>• SDG 17: Partnership for the Goals</li> </ul>

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12	Rodiah Zawawi	Faculty of Built Environment (FBE)	Penghasilan Baja Kompos Dari Sisa Dapur Dan Kebun	Sekolah Menengah Vokasional Dungun, Terengganu	My expertise is in the field of building construction using inorganic waste materials as well as repairing existing buildings using low carbon materials. while my research partner specialises in the production of compost from food waste. A combination of expertise between me and a research partner will be used and we will do the transfer of construction technology and compost production.	<ul style="list-style-type: none"> <li>● SDG 4: Quality Education</li> <li>● SDG 12: Responsible Consumption &amp; Production</li> <li>● SDG 13: Climate Action</li> <li>● SDG 17: Partnership for the Goals</li> </ul>
13	Zairul Nisham Bin Musa	Faculty of Built Environment (FBE)	Program Pembangunan Dan Teknologi Hijau Di Sekolah [Pdth]	SM Sains Selangor	Expertise of project members in the field of computer systems technology and the built environment. This program will attract the interest of school students in understanding the development and system of environmental technology based on the concept of green.	<ul style="list-style-type: none"> <li>● SDG 4: Quality Education</li> <li>● SDG 13: Climate Action</li> </ul>
14	Mary Lee Hong Gee	Faculty of Pharmacy (FoP)	A "Clear Away Unused And Expired Medicines" (Care) Project For The General Public Who Take And Use Medicines For Both Short And Long Term Medical Treatment	<ol style="list-style-type: none"> <li>1. Five academic staff from UM which consist of one pharmacologist, one geriatrician, three lecturer pharmacists who used to practice as pharmacists in the market.</li> <li>2. Community pharmacists of various caring pharmacies branch in Klang valley who will have the opportunity to offer medication review counselling services to the communities near them.</li> <li>3. General public who can access community pharmacists near to their home to obtain medication review and counselling on medications they are currently using or no longer use or take.</li> </ol>	<p>The project will focus on proposing to the community pharmacies to offer medication review services to the public to review medications they take currently and identify any medications they hoard and no longer use at home through the "clear away unused and expired medicines" (care) project. Subsequently, these unused and expired medications can be disposed of through an appropriate disposal channel.</p> <p>At the end of the project, we hope to provide this medication review services to the public around Klang valley through community pharmacists. This project will also indirectly offer a safe option for the public to dispose of unused and expired medications safely and educate the general public to better manage their medication stocks.</p>	<ul style="list-style-type: none"> <li>● SDG 3: Good Health &amp; Wellbeing</li> <li>● SDG 12: Responsible Consumption &amp; Production</li> </ul>

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15	Melati Sumari	Faculty of Education (FoE)	Intervensi Psikopendikan Berasaskan Kekeluargaan Bagi Tujuan Penambahbaikan Dan Pengukuhan Hubungan Kekeluargaan Semasa Pasca Covid-19	Parents and young people in the neighbourhood of nature trail and Bukit Subang, Shah Alam	<p>This study aims to guide selected families to undergo a psychoeducational intervention program aimed at strengthening and strengthening family relationships. study participants were mothers or fathers who had at least one child under 18 years of age. study participants were screened and selected in collaboration with community committee members. participants were families who had been identified as affected by the pandemic and the impact it had on family well -being. Research is in the form of knowledge transfer. The impact of the program will be measured by interviewing participants after the program to explore their experiences participating in the program. phenomenological qualitative methods will be used in collecting interview data. To ensure the sustainability of the project, the research team has identified a resident representative with a professional background in human relations and psychology to be part of the program facilitator. These committee members will continue the program to ensure more families can benefit from the program.</p>	<ul style="list-style-type: none"> <li>• SDG 3: Good Health &amp; Wellbeing</li> </ul>

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16	Mohd Nazri Abdul Rahman	Faculty of Education (FoE)	Pembangunan Modul E-Niaga Cilik Prasekolah	<ol style="list-style-type: none"> <li>1. Preschool Teachers</li> <li>2. Parents</li> <li>3. Children</li> </ol>	<p>The objectives of this study are to:</p> <p>(i) Exploring the need for the development of small e-business modules for preschool group b40,</p> <p>(ii) Design and develop a small e-business module for preschool group b40 based on expert agreement</p> <p>(iii) Implementation and evaluation of b40 group preschool small e-business module. The development of this module adapts the design and develop research (DDR) approach which is the first phase, content needs analysis of the module which was built by involving 40 preschool teachers using questionnaires, interviews and document analysis. second phase: designing and developing modules using interpretive structural modelling (ISM) methods involving a panel of 10 experts to develop a model and subsequently build a small e-business module for preschool group b40. The third phase of the implementation and evaluation of the module uses fuzzy delphi and quasi-experimental methods involving a total of 4 preschool teachers and 50 preschool children. The impact of the study highlights a new approach in project-based learning pedagogy to teachers and parents to explore digital entrepreneurship knowledge among kindergarten children more interestingly and effectively. The implementation of this module can also provide awareness to parents, society and stakeholders for the needs of this generation in ensuring balanced economic well -being based on the idea of national transformation 2050.</p>	<ul style="list-style-type: none"> <li>• SDG 4: Quality Education</li> <li>• SDG 11: Sustainable Cities &amp; Communities</li> </ul>

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17	Norhayati Mahyuddin	Faculty of Built Environment (FBE)	Classroom Ventilation And School Community Awareness Encountering School Reopening Within The New Norm Of Covid-19 Pandemic	<ol style="list-style-type: none"> <li>1. School Community</li> <li>2. Parents</li> </ol>	<p>The COVID19 pandemic has had a negative and drastic impact on the health and education of children in Malaysia. To date, there is still no guarantee that school students, especially those aged 12 and under, will be fully vaccinated before returning to school. In general, the physical effects of COVID19 disease in children are not as severe as in adults because children experience only mild or asymptomatic symptoms, so the taking of diagnostic tests may not be prioritised or not carried out at all. following this, the lack of testing has contributed to the lack of case reporting against children (1,2). In this research project, we will study and identify the best low -cost ventilation mechanism in the classroom to reduce the risk of airborne COVID19 infection. With the existence of a new and more potential sars-cov-2 variant to increase the rate of infection and disease transmission in a building space, the emphasis on indoor air quality is particularly important to investigate especially regarding current ventilation guidelines. A total of 41 covid19 clusters with 2,228 cases involving sub -categories of schools or institutions of the Malaysian Ministry of Education (KPM) were detected from 1 January 2021 to 25 March 2021. However, if compliance with other mitigation strategies (soup care) is poor in schools, then not much can be done by the ventilation system to offset the increased risk for the entire school community. Therefore, the project will also hold competitions in schools and also distribute posters to be pasted in schools. A short lecture video competition in schools will be based on the theme of "healthy ventilation systems". In addition, posters and e-posters will be distributed to schools to raise awareness on healthy ventilation systems especially in the COVID19 pandemic.</p>	<ul style="list-style-type: none"> <li>• SDG 3: Good Health &amp; Wellbeing</li> </ul>
18	Mohd Razip Bajuri	Faculty of Education (FoE)	The Implementation Of Mr-2d Geometry Kit On 2d Geometry Teaching, Learning And Problem-Solving In Community	<ol style="list-style-type: none"> <li>1. Lower Form (Form 1 To 3) Secondary Schools' Students.</li> <li>2. Teachers And Trainee Teachers.</li> </ol>	<p>This project involves engagement of University Malaya (UM) lecturers from faculty of education and faculty of science with Institut Pendidikan Guru Malaysia (IPGM) and collaboration with Triple Kay Trading Sdn. Bhd. The main issue is about Malaysian Students mathematics' achievement which is still at a low level, and the topic of geometry is one of the important topics in the mathematics curriculum. Meanwhile, the learning of 2d geometry is challenging without any tangible and manipulated tools. mr-2d geometry kit is an innovative learning tool that can be used to overcome this problem. Based on the previous study done by kit's innovator, mr-2d geometry kit has the ability to improve student understanding of the 2d geometry concepts by 56%. Therefore, this project is to be implemented to 10 secondary school students in the Klang valley area. Together with this project is an experimental study to identify the kit's effectiveness. Every selected 30 to 35 school's students will use the same 35 sets of the kits (one after one). Using this method, the mr-2d geometry kit will benefit about more than 350 students learning the 2d geometry concept. a group of experts in mathematics education from University Malaya (UM) will be collaborating with Institut Pendidikan Guru Malaysia (IPGM) and triple kay enterprise as engineering and manufacturing expertise. University Malaya will collaborate with Institut Pendidikan Guru Malaysia on the networking to all selected schools in the Klang Valley area. University Malaya also will collaborate with triple kay trading on the kits' fabrication using laser cutting and printing machines.</p>	<ul style="list-style-type: none"> <li>• SDG 4: Quality Education</li> <li>• SDG 9: Industry, Innovative and Infrastructure</li> </ul>

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19	Syakirah Rifa'in@Mohd Rifain	Faculty of Language & Linguistics (FBL)	Development Of Faseeh Ilmu Aswat Module For Religious School Students	Students of SRA Kampung Medan 2, Pj	This study aims to enliven the ecosystem of learning and teaching with the help of learning aids so that it becomes more conducive and fun for primary school students. This Faseeh Ilmu Aswat module serves as a reference Centre for future teachers in learning and teaching Al-Quran. Therefore, this study aims to design, build and evaluate the applicability of the Aswat science Faseeh module based on the Aswat science theory and its effectiveness. In addition, will evaluate the Faseeh Ilmu Aswat module to assist the learning process of religious school students and boarding schools in Malaysia.	<ul style="list-style-type: none"> <li>SDG 4: Quality Education</li> </ul>
20	Asmawati Muhamad	Academy of Islamic Studies	Environmental Advocacy Through The Green Mosque Programme: Case Study Of Masjid Al-Ikhlasih And Lembah Pantai Community	<ol style="list-style-type: none"> <li>Mosque Committee Members/Management Team</li> <li>B40 Community</li> <li>Youth</li> <li>Imarah Eco-Friends</li> </ol>	Since 2016, action research based on eco-mosque project and sustainability advocacy among campus community in Universiti Malaya (Um) known as the "Imarah Green Project: Surau Akademi Pengajian Islam Universiti Malaya (Apium)" has been conducted under the purview of Universiti Malaya community and sustainability centre (Umcares). It is anticipated that the green initiatives that have been implemented at the Eco-Surau Apium could be replicated by other mosques beyond those located within the um campus, and simultaneously mainstreaming the role of Muslim community in religious-driven environmental advocacy. In this regard, we intend to conduct a case study at Masjid Al-Ikhlasih involving Lembah Pantai Community. This is in line with the advocacy of environment and water minister (Kasa), Yb Dato' Sri Tuan Ibrahim Tuan man, who urges more mosques to take part in the green mosque programme which focuses on water and energy saving and recycling practices. In short, team researchers will approach the Lembah Pantai community through environmental advocacy of the green mosque programme using three mechanisms; knowledge transfer, capacity building and community engagement.	<ul style="list-style-type: none"> <li>SDG 4: Quality Education</li> <li>SDG 11: Sustainable Cities &amp; Communities</li> <li>SDG 13: Climate Action</li> <li>SDG 17: Partnership for the Goals</li> </ul>