NO.	STAFF NAME	FACULTY / CENTRE	PROJECT TITLE	COMMUNITY NAME	BRIEF DESCRIPTION OF KNOWLEDGE/TECHNOLOGY	IMPACT OF THE PROJECT	SDG
1	Rodiah Zawawi	Faculty of Built Environment (FBE)	Empowering The Community on Repairs and Maintenance Historic Masonry Building in Melaka	IPTA students/ contractors/ mosque committee	Organising workshops - lectures & practical training on the preparation and use of mortar and lime plaster on brick construction Practical renovation of real historic buildings.	i. Preserve and maintain the originality and integrity of brick heritage buildings. ii. Extending the life cycle of heritage buildings. iii. Build a construction team skilled in building conservation work iv. Creating employment opportunities for the community	• SDG 11: Sustainable Cities & Communities • SDG 4: Quality Education
2	Suhaiza Hanim Dato' Mohamad Zailani	Faculty of Business and Accountancy (FBA)	Supply Chain For Agro For Business	Head of household B40 and Youth B40	UMEC has expertise in operations management and supply management as well as urban agriculture that is able to provide solutions to problems in the community that is to increase production capacity in ensuring the supply of organic vegetables can meet demand while providing an effective and impactful marketing model using the advantages of OBAC UMEC (Online Business Academy)	1. Increased knowledge of urban agriculture 2. The community has income from the sale of organic vegetables 3. Healthy and organic eating practices also improve the social well -being of the community and reduce the cost of community health care 4. Increase income 5. Increase productivity in marketing their production products.	• SDG 11: Sustainable Cities & Communities • SDG 12: Responsible Consumption and Production

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3	Mahanom Jalil	Centre for Foundation Study UM	Penjanaan Ekonomi Melalui Pertanian Bandar	Participants of the National Anti -Drug Agency	The knowledge transfer involved is planting techniques using fertigation systems and plant acclimatisation using biochar mixed medium for agricultural sustainability.	1. This program is expected to arouse interest in farming and make agriculture a beneficial hobby. 2. This program is expected to have the potential to provide entrepreneurial opportunities to the participants involved. The knowledge transfer carried out during the workshop will be able to be used by the community to apply the skills learned by conducting business activities. 3. Training will be provided to start a business on a small scale and further expand to commercial scale through exposure to existing business facilities on campus such as the UCTC (UM Community Fair) market which is held monthly.	• SDG 11: Sustainable Cities & Communities • SDG 12: Responsible Consumption and Production
4	Mohd Nazri Abdul Rahman	Faculty of Education (FoE)	Pelaksanaan Modul Kurikulum Berasaskan Kemahiran Komuniti Setempat Bagi Kanak-Kanak Bukan Warganegara Malaysia Tanpa Dokumen Pengenalan Diri Di Sabah	Kampung Numbak Learning Centre, Kota Kinabalu (Expected to get permission also to Kg Telipok Learning Centre, Kg. Kinarut Learning Centre and Pulau Gaya Learning Centre) is one of the 13 learning centres for non-Malaysian children without identification documents below managed by the National Security Council of the Sabah State branch located in the State of Sabah.	Implementation of the Local Community Skills Based Curriculum Module (3KS) for undocumented immigrant children and refugee children.	In total, the project succeeded in producing 600 mengkuang bookmarks, 50 mangkuang baskets, 100 newspaper baskets and 8 igal-igal traditional dance art groups among children at PPA Numbak and PPA Telipok. And, the Mengkuang bookmark products are now in the process of being negotiated to be used as souvenirs for Malindo Airlines flights. In addition, to date the products produced by the children of this community have sold 500 units of bookmarks, 40 baskets of mengkuang, and 100 baskets of old newspapers. PPA Sri Numbak and PPA Telipok are still implementing this local community curriculum as a co -curricular activity.	• SDG 4: Quality Education

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5	Roslinda Ithnin	Centre for Foundation Study UM	Pasum-KTEDM : Meneroka Dunia Sains Di Ipt	Mahkota Village Form Six College	The knowledge transfer that will be carried out is expertise in STEM/STEAM subjects for pre-university.	1. Students can improve their learning skills and strengthen themselves to face the STPM examination. 2. Open the minds of students to always strive for a bright future until they set foot on the ivory tower. 3. To increase students' interest in Science and technology as well as research. 4. Improve students' knowledge and ability to use English as the medium of instruction. 5. Students can emphasise the use of English in Science subjects.	● SDG 4: Quality Education
6	Eliza Hafiz	Centre for Sport and Exercise Sciences	B The New U!	UM Staff With Weight Problems (BMI Over> 30)	This program will teach participants how to control and lose weight in a proper and healthy way. Participants will be taught about the right way to exercise (intensity, frequency, behaviour) as well as the right way of eating for a healthy lifestyle. Participants will be taught to calculate calorie requirements and methods of food intake in terms of quantity, quality and appropriate timing for the purpose of ideal weight control. This includes dietary intake strategies before, during and after exercise to get the optimal effect.	1. The impact of this project will be seen through the weight that can be measured from the amount of weight loss, girth and body composition. 2. Increased awareness of healthy lifestyles. This can be measured through the right food selection, food intake at the right time, the quantity needed by the body as well as good nutrient quality. 3. An increase in the level of general health that can be measured through a decrease in resting heart rate, resting respiratory rate, blood glucose levels and cholesterol levels.	● SDG 4: Quality Education

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7	Tan Chia Kwang	UM Power Energy Dedicated Advanced Centre (UMPEDAC)	Rural Electrification – Improving Sustainability Through Community-Aligned Renewables Empowerment (Care)	Rural communities that had been electrified with renewable energy generation.	Renewable energy (RE) generation knowledge transfer particularly on the operation, maintenance and safety of RE systems through on-site training.	This project aims to empower the rural communities through uplifting their skills in safety, operation and maintenance of the RE systems, particularly regular monitoring, self-diagnose and replacement of parts. As such, at the very basic minimum, this project will address Level 3 of the National Blue Ocean Strategy (NBOS) Changes in Knowledge, Attitude, Skills and Practice. After the training, the rural community can independently make changes to the system by self-diagnostic and troubleshooting. As such, this project has the potential to address Level 5 of the National Blue Ocean Strategy (NBOS) Sustainability.	• SDG 4: Quality Education
8	Norhanim Zakaria	Faculty of Built Environment (FBE)	Sistem Penanaman Domestik Rumah Pangsa (Spdrp)	Residents of Flat 17 Tkt Kerinchi, Kuala Lumpur	N/A	i. Applying a sustainable system through rainwater collection, heat barrier, increasing oxygen levels and filtering dust from the outside indirectly. ii. Increase the aesthetic value of the balcony space of the flat. iii. Reduce household expenses. iv. Healthier crop yields.	• SDG 11: Sustainable Cities & Communities • SDG 13: Climate Action • SDG 15: Life on Land
9	Phan Chia Wei	Faculty of Medicine (FoM)	Knowledge Transfer From Lab To Hospital: Mushroom Poisoning, A Differential Diagnosis In Acute Gastroenteritis	Emergency Department health care practitioners	Knowledge transfer from Mushroom Research Centre University of Malaya (MRC UM) to hospital about mushroom poisoning: 1. Recognition of inedible and poisonous mushrooms 2. Mushroom toxicology	1. Knowledge in general mycology and awareness of mushroom poisoning 2. Tangible outcome after the completion of project	SDG 3 : Health & Wellbeing

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10	Liew Su May	Faculty of Medicine (FoM)	Recognize Stroke Signs And Symptoms	Kuala Lumpur Health Clinic	Our research shows that only a quarter of stroke patients arrive at the hospital within 3 hours. This means that nearly three quarters arrive too late to allow us to administer important treatment that can potentially reverse their stroke symptoms and signs. We aim to improve the public's knowledge and awareness regarding stroke symptoms and signs so that they are able to access treatment in a timely manner.	The data from the Stroke registry for the subsequent years will be collected and analysed to determine the impact from the stroke awareness project	• SDG 3 : Health & Wellbeing
11	Donnie Adams	Institut Kepimpinan Pendidikan	Modul Senaman Therapeutic Untuk Anak Istimewa	1. SK Methodist 2. SK Taman Medan 3. SK Damansara Utama 4. SK Taman Megah 5. SK Bangsar 6. SK Taman Sea	Children with disabilities and special needs get less Therapeutic exercise at home due to parents lack of expertise in this area. Knowledge transfer of engineering Therapeutic exercises that are effective for parents for children with special needs and disabilities can help these children in aspects of emotions, behaviours, skills psychomotor and reduce the appearance of disability.	a) Provide useful input on Therapeutic exercise techniques for the long term to parents and heirs who have children with special needs. b) Awareness of the community about the potential of children with special needs. c) Awareness of the community that children with special needs still have the ability behind the disability they have. h) The impact of the program will be assessed through questionnaires and interviews with parents as well Observation and monitoring of the development of children with special needs.	• SDG 3 : Health & Wellbeing

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12	Haireen Abdul Hadi	Faculty of Medicine (FoM)	Walking4fit Football	1. SK Lelaki Bukit Bintang 1 2. SK 1 Sultan Alam Shah 3. SK Bangsar 4. SK Kg Tunku 5. SK Sri Damai 6. SK Sri Petaling	Healthy lifestyle and tackling obesity among school children through a new sport called "walking football"	1. The impact on the fitness level and physical health of the students involved will be measured before and after the project. 2. A low-impact and safe sport that can encourage students to move more actively by playing together among students with obesity. 3. This sport is also one of the ways for us to encourage students and teachers to work together to succeed in the 10,000 steps campaign recommended by the Ministry of Health Malaysia. 4. It is hoped that with this project, these students will be able to exercise together with other fellow students (who do not have weight problems) and change their lifestyle to a more active and healthier one.	● SDG 3 : Health & Wellbeing
13	Raja Jamilah Raja Yusof	Faculty of Computer Science & Information Technology (FSKTM)	Computational Thinking Games: Unplug Activities To Teach Programming Concepts	1.SAMT Tengku Ampuan Jemaah 2. SMK Sultan Abdul Samad 3. Sk Convent 2 Bukit Nanas 4. Sk Lembah Subang 5. Smk Taman Medan 6. Sk Subang Bestari 7. MRSM Sg Besar 8. Sekolah Menengah Islam Tahfiz (Smita), Teluk Intan.	Unplug computer science -programming	a) Knowledge of computer science in particular programming is transferred to communities b) Communities without computing facilities could also benefit through this program c) Spreading computational thinking games to the Malaysian society as an alternative to common games conducted such as musical chairs, bursting balloons and others which have no clear justification of the logical and cognitive benefit d) Promote logical and structured thinking to the future generation	● SDG 4: Quality Education

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14	Zati Hakim Azizul Hasan	Faculty of Computer Science & Information Technology (FSKTM)	Siri Sokongan Tech Teachers : Aplikasi Robotik Dalam Pendidikan Stem	The target of this project is ICT teachers who teach in UM Friends Club secondary schools (the project is open to any interested ICT teachers)	Robotics applications in STEM learning (Science, technology, engineering, mathematics)	1. Synthesise the application of robotics in the teaching of STEM-based subjects in their respective schools 2. Integrate acquired skills to guide school students to solve learning problems	• SDG 4: Quality Education
15	Thilagavathi Shanmuganathan	Faculty of Languages and Linguistics (FBL)	Title Of Project : Sustainable Education Through Environmental Awareness	Sekolah Kebangsaan Lanai in Pos Pantos, Kuala Lipis, Pahang.	• Create a module in English on sustainable environment through education • Create interest and need to learn for the future • Foster closer relationship between university, community, industry and the school	Sustainability is the key word. Through education, the children and community would benefit in the long run and learn to be independent. The education would also help to mitigate their water crisis during the hot seasons. While learning English, the children would learn how to conserve their water resources.	• SDG 4: Quality Education
16	Rozita Che Omar	Faculty of Languages and Linguistics (FBL)	Memperkasakan Wanita Melalui Peningkatan Kemahiran Berkomunikasi Dan Produktiviti	Gombak District Asnaf Group	Communication skills and effective communication strategy procedures are transferred to the community. In addition, the community can also master product production techniques to increase their income.	The use of appropriate language and communication skills can enable participants to market their products with more confidence. In addition, they are also able to increase their income in dealing with the rising cost of living.	• SDG 4: Quality Education
17	Rusaslina Idrus	Faculty of Arts and Social Sciences (FASS)	Suara Saya, Cerita Saya: Pengunaan Cerita Digital Untuk Memberi Ruangan Bersuara Dan Memperkasa Belia Orang Asli	Orang Asli	The use of digital media as a space to express the voices and aspirations of marginalised communities. These digital stories can be used as a medium of community rights advocacy. It also provides information/data on the educational experience of Orang Asli children.	1. Empower Orang Asli youth (assessed through observations, interviews and focus group discussions with youth and community members such as teachers) 2. Change perceptions and stereotypes about Indigenous Peoples (assessed through survey forms distributed after digital storytelling.)	• SDG 4: Quality Education

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18	Unaizah Obaidellah	Faculty of Computer Science & Information Technology (FSKTM)	Cognitive Assessment of Special Needs Children in Quran Lessons	Children with Special Needs	This is a collaborative research project with NGOs, Yayasan Faqeh and the Centre of Quranic Research Group, University of Malaya. The NGO (Yayasan Faqeh) will together learn techniques to conduct research to identify mental processing difficulties faced by Muslim children with non-verbal special needs (autism, Down syndrome) in learning the Quran.	1. Provide free computerised Asyraaf Recitation modules that can be downloaded and used on personal computers and mobile devices. 2. Learning monitoring module. 3. Continuous learning other than in the learning centre. 4. Assessment of visual attention and facial expressions.	● SDG 4: Quality Education
19	Zuraidah Abdullah	Faculty of Education (FoE)	Modul Pemerkasaan Wanita #Umrm500.00seminggu	Female group B40	1. Provide exposure to the importance of organisational management skills 2. Provide theoretical and practical training in organisational management skills 3. To be a platform for youths to interact and share experiences in the management aspect of youth associations. 4. Introduce thinking techniques in problem solving 5. Improve communication skills in the organisation 6. Provide simulation training and sequence skills	1. Participants are more confident in opening new businesses in the Sepang district. 2. Improve the efficiency of product marketing in a mobile, commercial and more systematic manner 3. Participants are more innovative to compete with their peers. 4. Produce participants who specialise in massage skills and produce postpartum women's beauty products 5. Open a wider market space for alternative medicine entrepreneurs, market massage products and food products directly to the home with products that are guaranteed quality and safe to eat 6. To ensure that consumers can enjoy the services provided at a cheap price and quality.	● SDG 4: Quality Education

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20	Zuraini Md Ali	Faculty of Built Environment (FBE)	UM-DTC Edu-Histo-Tourism : Training UM-DTC Tourist Guided Walk Program	School & IPT Students	Knowledge of the Dewan Tunku Canselor building, UM: history, architecture, construction, main functions, uniqueness & importance of the building as well as its conservation process after the 2001 fire tragedy until it was recognized as a 2008 National Heritage Building	1. Provide an opportunity for public /outside visitors to get exposure to heritage buildings at UM for free (program on a regular basis every week or month) can be evaluated in terms of statistics of program participants 2. Provide an opportunity for the program to be conducted for a fee for group requests at the weekend (number of hours /visitors present as well as additional in-come to UM residents who run the program)	• SDG 4: Quality Education
21	Norzulaani Khalid	Faculty of Science (FoS)	Perladangan Pisang Pembangunan Ekonomi Golongan Sasaran #Janabanana	1) Neo Pragmatic 2) Rubber smallholders (replanting)	From UM to Target Group 1 • More efficient tissue culture techniques to produce banana plant seedlings to Neo Pragmatik Sdn Bhd. From UM to Target Group 2 • Tissue culture banana seedling transfer technique from laboratory to nursery to B40 group, rubber smallholders in Kampung Hilir, Merbok, Kedah. From Agriculture Department to Target Group 2 • Banana cultivation techniques for commercial purposes From UM to Target Group 1 • More efficient tissue culture techniques to produce banana plant seedlings to Neo Pragmatik Sdn Bhd. From UM to Target Group 2 • Tissue culture banana seedling transfer technique from laboratory to nursery to B40 group, rubber smallholders in Kampung Hilir, Merbok, Kedah. From Agriculture Department to Target Group 2 • Banana planting techniques for commercial purposes	1. This program is expected to arouse interest in farming and make agriculture a beneficial hobby. 2. This program is expected to have the potential to provide entrepreneurial opportunities to the participants involved. The knowledge transfer carried out during the workshop will be able to be used by the community to apply the skills learned by conducting business activities. 3. Training will be provided to start a business on a small scale and further expand to commercial scale through exposure to existing business facilities on campus such as the UCTC (UM Community Fair) market which is held monthly.	• SDG 4: Quality Education • SDG 12: Sustainable Consumption & Production

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22	Faridah Noor Mohd Noor	Faculty of Language & Linguistics (FBL)	Kompilasi Rakaman Cerita Topeng Mah Meri Sg. Bumbun Carey	Sungai Bumbun Orang Asli Village	A collection of mah Meri mask stories in the form of audio and video recordings in the Mah Meri language for the benefit of the Mah Meri community in Carey Island and also Bukit Bangkung.	1. Produce audio recordings in Mah Meri language 2. Produce video recordings in Mah Meri language 3. Recordings can be used as educational material and cultural oral tradition of the Mah Meri	● SDG 4: Quality Education
23	Nahrizul Adib Kadri	Faculty of Engineering (FEng)	Projek Ezra: Modul Tambahan Stem Melalui Pengaturcaraan Robotik Dan Peneroka Alam Untuk Projek Sekolah Menengah	1. Smk Bukit Bandaraya 2. Smk Seri Pantai 3. Smk (P) Sri Aman 4. Smk Assunta 5. Smk (L) Bukit Bintang	The transfer of knowledge/technology is the addition of interest/motivation in the field of STEM through programming (using Scratch), robotics (kit from Micro Engineering), 3D printers.	School students in these hinterlands get exposure to the latest technology in STEM learning through aspects of programming, development of robotic kits, and fabrication of 3D models using 3D printers. This exposure has given them an advantage when continuing their studies at a higher level later.	● SDG 4: Quality Education ● SDG 11: Sustainable Cities & Communities
24	Zul Ilham Zulkiflee Lubes	Faculty of Science (FoS)	Penerapan Budaya Penjimatan Tenaga Di Kalangan Komuniti Sekolah	1. Smk Assunta 2. Smk Damansara Utama (Telah Mendapat Persetujuan/Sokongan Pengetua) 3. Smk Seksyen 8 Kota Damansara 4. Smk Sultan Abdul Samad 5. Smk Seri Pantai	Disclosure on energy saving culture and energy efficiency.	1. To increase the knowledge of the school community on the sustainability of lifestyle in using electricity 2. The school community is aware of the importance of saving electricity consumption. 3. Community skills in managing and carrying out activities to ensure the use of electricity is always used sustainably.	● SDG 4: Quality Education ● SDG 11: Sustainable Cities & Communities
25	Norhanim Zakaria	Faculty of Built Environment (FBE)	Mrdiy Innovate And Decorate 2017	Smk Bandar Utama Damansara 3	Implementing a 'Do it yourself' culture among school students Creating a culture of social work among Malaysians	1. Learn through an environment that suits the child's soul 2. Training children's psychomotor is very important for physical and mental development 3. To produce creative-minded children 4. Train to communicate during play activities 5. Increase self-confidence	● SDG 4: Quality Education ● SDG 11: Sustainable Cities & Communities

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26	Yong Adilah Shamsul Harumain	Faculty of Built Environment (FBE)	Projek Support	SMK Seri Bintang Utara Dual Blessings Sdn Bhd	• Personal and professional development of students • Improving the quality of life of the disabled community by renovating office/meeting space	1. Transfer of knowledge to the students involved 2. Cultivate positive values, love between Mentors, Teachers, Students and the Community 3. Strengthen the relationship and bond between the university and the community	• SDG 4: Quality Education
27	Zakaria Alcheikh Mahmoud Awad	Faculty of Built Environment (FBE)	Mentors Project	SMK Damansara Utama Rumah Kebajikan Nur Hudayah	Provide a computer repair workshop at the charity home	1. Income generation to welfare homes 2. A social network between the welfare home and the local community	• SDG 4: Quality Education
28	Aniza Abdul Aziz	Faculty of Built Environment (FBE)	MrDIY Innovate And Decorate 2017	SMK Sultan Abdul Samad Pusat Jagaan Kanak-kanak Kerinchi	Use of 3D software to school students and carpentry and painting work to school students and children in the community.	1. Space- comfortable and tidy 2. Toys- stored in an orderly manner 3. Atmosphere- bright and cheerful 4. User Involvement- new reading space adds interest to girls, and a conducive atmosphere allows group activities to be held in the evening (tahfiz, reading classes, etc.) 5. Hygiene- addressed through toilet replacement and adding a new gutter (GI gutter) that channel's dirty water droplets (from the upper unit) to the drain 6. Security- door opening that does not take up interior space and does not obstruct the passage in the corridor 7. Innovation- Provide a new pantry space for joint use of the school community and children in the community.	• SDG 4: Quality Education
29	Umi Kalsum Zolkafli	Faculty of Built Environment (FBE)	Innovate-Decorate D.I.Y Made Simple	SAMT Tengku Ampuan Jemaah PAKK Desa Tun Hussein Onn	Apply the practice of using used goods as practising the concept of recycling	This project has changed the setting inside and outside the building to be more cheerful and comfortable so that it is conducive for children's activities and attractive to visitors.	• SDG 4: Quality Education

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30	Zahiriah Yahya	Faculty of Built Environment (FBE)	Memperkasakan Wanita Muda	Raudhatus Sakinah SAM Bestari	Provision of adequate facilities/facilities as well as providing knowledge on facilities as well as lifelong continuing education and personality.	1. Lack of seating for visitors can be overcome 2. The site area is more organised, beautiful and usable 3. Trainees can be empowered with relevant knowledge and gain more self-confidence	● SDG 4: Quality Education
31	Imaduddin Abdul Halim	Faculty of Built Environment (FBE)	Meningkatkan Keselesaan Dan Menambahbaik Ruang Kerja Untuk Golongan Oku Berkerusi Roda Melalui Cadangan Rekabentuk Infows	SM Setia Budi Gombak Rumah kebajikan Beautiful Gate Foundation.	Knowledge sharing on construction, furniture manufacturing as well as thermal comfort technology related to building services.	1. Improving the comfort of occupants in the workspace which indirectly increases their productivity 2. Reduces the increase in heat from sunlight through water elements and creeping tree life designed on InFows 3. Avoid tempias rainwater during rainy season in the workspace through the panel louvres designed on each InFows panel 4. More organised and organised workspace management through shelves designed as supports to InFows panel water reservoir bottles	● SDG 4: Quality Education