

NO	GRANT NAME	PROJECT TITLE	PRINCIPAL INVESTIGATOR	DATE START	DATE END	AMOUNT AWARDED (RM)
1	GIP	FABRICATION OF CROSSLINKED CHITOSAN ALGAE CLAY BIOCOMPOSITE MATERIAL FOR CATIONIC AND ANOINIC DYES REMOVAL PROCESS OPTIMIZATION AND MECHANISM STUDY	ALI H. JAWAD AL-TAIE	15/12/2021	14/12/2022	21600
2	GIP	AN EVALUATION OF ATR FTIR FOR STATISTICAL DISCRIMINATION OF TONER CARTRIDGES USING PCA AND AHC	HAMIZAH BINTI MD RASID	15/12/2021	14/12/2022	18000
3	GIP	SIZING VERIFICATION OF GRID CONNECTED PV SYSTEM USING A MATHEMATICAL MODEL AND PVSYST SOFTWARE CASE STUDIES IN MALAYSIA	HEDZLIN BINTI ZAINUDDIN	15/12/2021	14/12/2022	18000
4	GIP	COMPUTATIONAL INSIGHT INTO ATOMIC STRUCTURE ELECTRONIC OPTICAL AND PHOTOVOLTAIC PROPERTIES OF VANADIUM DOPED BiO 9AlO 1FeO3 MATERIALS	MUHAMAD KAMIL BIN YAAKOB	15/12/2021	14/12/2022	18000
5	GIP	PLASMONIC PHOTOCATALYST CU DOPED ZNO NANONEEDLES FORMATION VIA ELECTROCHEMICAL ANODIZATION METHOD	NUR AIMI BINTI JANI	15/12/2021	14/12/2022	18000
6	GIP	BEHAVIOURAL AND PHYSIOLOGICAL STRESS OF CAPTIVE MALAYAN TIGERS PANTHERA TIGRIS JACKSONI IN NATIONAL WILDLIFE REHABILITATION CENTRE SUNGKAI PERAK	NUR NADIAH BINTI MD. YUSOF	15/12/2021	14/12/2022	18000
7	GIP	SUSTAINABLE STARCH POLYMER FOR BIOMEDICINAL HALAL CAPSULE	RAHMAH BINTI MOHAMED	15/12/2021	14/12/2022	21600
8	GIP	CATALYTIC AND KINETIC STUDIES OF NICKEL II LANTHANUM III AND PVA IMINE COMPLEXES	SHAHROL NIZAM BIN AHMAD	15/12/2021	14/12/2022	21600
9	GIP	THE EFFECT OF EPIPHYTIC FICUS DELTOIDEA ON MICROINVERTEBRATES DIVERSITY FRUGIVORES ABUNDANCE AND OIL PALM PRODUCTIVITY	SITI KHAIRIYAH BINTI MOHD HATTA	15/12/2021	14/12/2022	18000
10	GIP	ACTIVE GREEN PACKAGING MADE FROM PLA NANOCCLAY LGE0 TO ENHANCE FRUITS SHELF LIFE	SITI NORASMAH BINTI SURIP	15/12/2021	14/12/2022	18000
11	GIP	ELECTROSPUN LIGHT EMITTING ER3 YB3 CO DOPED SiO2 ZRO2 NANOFIBER FOR PHOTONIC APPLICATIONS	SURAYA BINTI AHMAD KAMIL	15/12/2021	14/12/2022	18000
12	GIP	ORAL CONTROLLED RELEASE OF NATURAL ANTICANCER DRUG ZERUMBONE LOADED INTO ZEOLITE Y PROTEIN BASED POLYMER COMPOSITES	ROSMAMUHAMADANI BIN RAMLI	15/12/2021	14/12/2022	21600
13	GIP	SYNTHESIS AND CHARACTERIZATION OF B CYCLODEXTRIN IONIC LIQUID POLYPYRROLE MODIFIED MAGNETIC SORBENT FOR THE PRE CONCENTRATION OF SELECTED PSYCHOACTIVE DRUGS IN WATER SAMPLES	NOR SUHAILA BINTI MOHAMAD HANAPI	15/12/2021	14/12/2022	21600
14	GPM	FORMULATION OF NATURAL ANTIBACTERIAL HANDWASH USING BLUE PIGMENT FROM CLITORIA TERNATEA	MOHD TAUFIQ BIN MAT JALIL	15/12/2021	14/12/2023	20000

15	GPM	THE INVESTIGATION OF POWER OUTPUT RATIO INDICATORS AS AN EARLY FAULT DETECTION TECHNIQUE OF GRID CONNECTED PHOTOVOLTAIC SYSTEM	NURMALESSA BINTI MUHAMMAD @ ATAN	15/12/2021	14/12/2023	20000
16	GPM	DRYING EFFECTS ON PHYTOCONSTITUENTS YIELD OF GYNURA PROCUMBENS	SO'BAH BINTI AHMAD	15/12/2021	14/12/2023	20000
17	SRP	DEVELOPMENT OF GUMMY CONTAINING HONEY AND HABBATUSSAUDA (NIGELLA SATIVA) OIL	SITI SUHARA BINTI RAMLI	1/12/2021	30/11/2023	15000
18	PPRN	DEVELOPMENT OF FROZEN TUNABAM PUFF	AISAH BT BUJANG	8/11/2021	7/5/2022	42735
19	COMM	PRODUCT & MARKET INCUBATION OF PINEAPPLE SAUCE	AZIZAH BINTI OTHMAN	1/11/2021	29/4/2022	57000
20	EXTERNAL	PEMULIHARAAN BIODIVERSITI DAN PEMERKASAAN KOMUNITI DI MUKIM ULU CHEKA JERANTUT PAHANG	MOHD NAZIP BIN SURATMAN	1/11/2021	31/10/2023	35000
21	MOSTI	FABRICATION AND DEVELOPMENT OF A BIODEGRADABLE AND COMPOSTABLE RESINS FOR PLASTIC MANUFACTURING THROUGH HYBRID BIO-COMPOSITES	RAHMAH BINTI MOHAMED	1/11/2021	31/12/2023	80000
22	MOSTI	NANOSYSTEM FOR COVID 19 DNA/ANTIBODIES ON THE SPOT TEST (NACOTS)	ZAINIHARYATI BINTI MOHD ZAIN	1/11/2021	30/4/2023	1123600
23	EXTERNAL	PERUBAHAN STRUKTUR GENETIK SPESIS POKOK TERHADAP PENINGKATAN BERTERUSAN KARBON DIOKSIDA KAWASAN HUTAN PENGELUARAN DI FREE AIR CO2 ENRICHMENT (FACE) JENGA PHANG	FAEZAH BINTI PARDI	15/10/2021	31/12/2023	15000
24	EXTERNAL	PRELIMINARY STUDY OF THE DIELECTRIC ANSWER TO EVIDENCE THE EFFECT OF TEMPERATURE ON PLUMPYNUT	AMIRAH AMALINA BINTI AHMAD TARMIZI	1/10/2021	30/9/2022	48400
25	MITRANS	ISSUES AND CHALLENGES OF THE IMPLEMENTATION AND PRACTICES OF MALAYSIA HALAL MANAGEMENT SYSTEM (MHMS 2020) AMONG STAKEHOLDER'S IN HALAL INDUSTRY	SITI AIMI SARAH BINTI ZAINAL ABIDIN	1/10/2021	30/9/2022	5000
26	FRGS	UNDERLYING THE FUNCTIONAL AND PHYSICOCHEMICAL PROPERTIES OF DIFFERENT TEXTURIZED LEGUME-BASED PROTEINS	ANIDA BINTI YUSOFF	7/9/2021	6/9/2024	126200
27	FRGS	TREE SPECIES RARITY-WEIGHTED RICHNESS (RWR) INDEX ESTABLISHMENT FOR TROPICAL FOREST CONSERVATION BASED ON CLIMATE CHANGE SCENARIOS	FAEZAH BINTI PARDI	7/9/2021	6/9/2024	125800
28	FRGS	ELUCIDATION OF CYTOKINE-MODULATING EFFECTS AND MECHANISM OF ACTION OF CAFFEINE IN CEREBRAL MALARIA MURINE MODEL	WAN ROZIANOOR BINTI MOHD HASSAN	7/9/2021	6/9/2024	186795
29	FRGS	ELUCIDATION ON THE ANTIBACTERIAL PROPERTIES OF MELT BLOWN POLYPROPYLENE FILLED REGENERATE CARBON BLACK (RCB) GRAPHENE OXIDE (GO) FABRIC	NOOR NAJMI BINTI BONNIA	7/9/2021	6/9/2023	92669

30	FRGS	MITIGATION MODELLING OF 3-MONOCHLOROPROPANE-1,2-DIOL ESTERS (3-MCPDE) AND GLYCIDYL ESTERS (GE) VIA MODIFIED PHYSICAL REFINING PROCESS USING CRUDE PALM OIL (CPO) WITH DIFFERENT FREE FATTY ACID CONTENT.	ADI BIN MD SIKIN	7/9/2021	6/9/2024	155264
31	FRGS	DEREPLICATION APPROACH ON TWO MACARANGA SPECIES, IN VITRO ACETYLCHOLINESTERASE INHIBITION ON SH-SY5Y NEUROBLASTOMA CELL LINES AND MOLECULAR DOCKING ANALYSIS	NORIZAN BINTI AHMAT @ ABDUL HAMID	7/9/2021	6/9/2024	171000
32	FRGS	THEORY FOR ENTANGLEMENT IN A QUAD GUIDED WAVES QUANTUM COUPLER WITH KERR NONLINEARITY.	ABDEL BASET MOHAMED EL NABWI ABDEL HAMID IBRAHIM	7/9/2021	6/9/2024	120000
33	FRGS	IN-SITU LOW-ENERGY CATALYTIC ELECTROLYSIS ON PALM OIL MILL EFFLUENT DEGRADATION BY FERRIC- FERROUS PROTON EXCHANGE ELECTROLYZER CELL FOR HYDROGEN PRODUCTION.	MOHAMMAD NOOR BIN JALIL	7/9/2021	6/9/2024	139000
34	FRGS	CONTROLLABLE SYNTHESIS OF HIGHLY CONDUCTIVE REDUCED GRAPHENE OXIDE-SILVER (RGO-AG) NANOHYBRID BY FACILE SYNTHETIC METHOD	NURUL IZRINI BINTI IKHSAN	7/9/2021	6/9/2023	103200
35	FRGS	ENHANCEMENT OF QUALITY PLANTING MATERIALS OF PHYLLOSTACHYS EDULIS BAMBOO SPECIES IN DIGITAL AUTOMATION BIOREACTOR	NORRIZAH BINTI JAAFAR SIDIK	7/9/2021	6/9/2024	123400
36	BIAYA TERUS	UNRAVELLING BLACK SOLDIER BY LARVAR AS MEAT ALTERNATIVES PROTEIN QUALITY AND MODIFICATION THROUGH PHYSICAL & CHEMICAL PROCESSING METHODS	ZAIBUNNISA BINTI ABDUL HAIYEE	7/9/2021	7/9/2024	125900
37	SRP	MECHANICAL AND RHEOLOGICAL PROPERTIES OF POLYURETHANE AS CONCRETE RAISING MATERIALS	NOOR NAJMI BINTI BONNIA	1/9/2021	31/8/2023	10000
38	YTR	ULTRARAPID SYNTHESIS OF ZNO NANOWIRES BY MICROWAVE-ASSISTED ULTRASONIC IRRADIATION FOR DYE SENSITISED SOLAR CELL APPLICATIONS	MOHD FIRDAUS BIN MALEK	1/9/2021	31/8/2023	50000
39	YTR	HERB-METABOLISM CATALYTIC BIOTRANSFORMATION MODEL BY CYTOCHROME P450 3A4 ENZYME THROUGH IN-SILICO STUDIES, MULTIVARIATE ANALYSIS, AND MOLECULAR DYNAMICS SIMULATION	SYAHRUL IMRAN BIN ABU BAKAR	1/9/2021	31/8/2023	50000
40	GPM	FIBRE PROTRUSIONS AND MICROFIBRES EMISSION OF TEXTILES IN HOUSEHOLD WASHINGS	SUZAINI BT ABDUL GHANI	1/9/2021	31/8/2023	20000
41	GPM	EFFECT OF PROCESSING PARAMETERS ON THE DEVELOPMENT OF INSTANT FORTIFIED RICE CONGEE IFRC	SEOW ENG KENG	1/9/2021	31/8/2023	20000
42	GPM	MECHANISM STUDY OF BACTERIAL CELLULOSE DISSOLUTION IN NAOH AND NAOH UREA SOLUTION	MOHD IQBAL BIN MISNON	1/9/2021	31/8/2023	20000
43	GPM	QUALITY ATTRIBUTES AND BIOACTIVE COMPOUNDS STABILITY OF COOKIE SUBSTITUTED WITH WHOLE RICE BRAN	FADHILAH BINTI LAMUN @ JAILANI	1/9/2021	31/8/2023	20000
44	GPM	EFFECT OF CO DOPED SILICA AND BENZOTRIAZOLE INHIBITOR IN POLYPYRROLE FILM ON MILD STEEL IN 0.5M NACL SOLUTION	SABRINA BINTI M YAHAYA	1/9/2021	31/8/2023	20000

45	GPM	A FACILE STEP FABRICATION OF TITANIUM DIOXIDE NANOSTRUCTURES THIN FILMS WITH ENHANCED PHOTOCATALYTIC PERFORMANCE	ASIAH BINTI MOHD NOR	1/9/2021	31/8/2023	20000
46	LESTARI	ENCAPSULATED CR TiO2 POWDER IN CR TiO2 NANOFIBERS LAYERS FOR PHOTOCATALYTIC WATER PURIFICATION	SITI NURBAYA BINTI SUPARDAN	1/9/2021	31/8/2023	20000
47	SRP	COMPARATIVE STUDY ON PERFORMANCE INDICES OF GCPV SYSTEM IN TROPICAL REGION: CASE STUDIES IN MALAYSIA AND INDONESIA	HEDZLIN BINTI ZAINUDDIN	1/8/2021	30/9/2023	17850
48	SRP	PREPARATION AND CHARACTERIZATION OF NANOFIBERS FROM AGRICULTURAL WASTE AND ALOE VERA.	SITI NORASMAH BINTI SURIP	1/8/2021	30/9/2023	17850
49	SRP	CHITOSAN-TiO2 NANOCOMPOSITE BIOPOLYMERS SYNTHESIS FOR TEXTILE DYE REMOVAL	ALI H. JAWAD AL-TAIE	1/8/2021	30/9/2023	17850
50	KEPU	INDUSTRY VIABLE ELECTROCHEMICAL COVID-19 DNA DETECTION SENSOR ARCHITECTURE COUPLED WITH LAMP AND RAPID IN SITU PROBE MOBILIZATION METHOD	ZAINIHARYATI BINTI MOHD ZAIN	15/7/2021	14/7/2023	40000
51	KEPU	NOVEL HIGH-QUALITY FOOD PROTEIN THROUGH SUSTAINABLE PRODUCTION AND PROCESSING	ANIDA BINTI YUSOFF	15/7/2021	14/7/2023	40000
52	KEPU	SMART ENERGY HARVESTER FOR COMMERCIALIZATION	MOHAMAD FARIZ BIN MOHAMAD TAIB	15/7/2021	14/7/2023	40000
53	KEPU	MICROALGAL BIOFILM FOR POST-TREATMENT POLISHING OF WASTEWATER AND BIORESOURCE RECOVERY	MOHAMAD FAIZ FOONG BIN ABDULLAH	15/7/2021	14/7/2023	40000
54	SRP	DEVELOPMENT OF SUSTAINABLE TYPHONIUM FLAGELLIFORME PRODUCTS WITH CANCER THERAPUTIC FUNCTIONS	UMI MARSHIDA BINTI ABD HAMID	15/7/2021	14/7/2023	20000
55	EXTERNAL	MESOPOROUS SILICA NANOPARTICLES EXTRACTED FROM OIL PALM FRONDS FOR THE DEVELOPMENT OF MAGNETIC SOLID PHASE EXTRACTION METHOD FOR EFFICIENT SEPARATION OF ORGANOCHLORINE PESTICIDES IN WATER SAMPLES	WAN NAZIHAH BINTI WAN IBRAHIM	4/6/2021	3/6/2023	51846
56	SRP	DEVELOPMENT OF DELICATUS MALAYSIAN MATCHA AS A FUNCTIONAL FOOD FOR DIABETES	NURDIANA BINTI SAMSULRIZAL	1/6/2021	31/5/2022	5000
57	EXTERNAL	SUSTAINABLE CARBON BLACK FOR APPLICATIONS	CHAN CHIN HAN	1/5/2021	30/4/2023	72000
58	GIP	EFFECTS OF RETORTING PARAMETER ON THE PHYSICO-CHEMICAL MICROSCOPIC AND SENSORIAL PROPERTIES OF DIFFERENT WHITE RICE VARIETIES	AIDA FIRDAUS BINTI MUHAMMAD NURUL AZMI	1/4/2021	31/3/2022	20000
59	GIP	SYNTHESIS AND IN SILICO STUDIES OF ISATIN AZOMETHINE DERIVATIVES AS ANTI COLON CANCER AGENTS	KARIMAH BINTI KASSIM	1/4/2021	31/3/2022	25000

60	GIP	BIOACTIVE METABOLITES AS AN ACETYLCHOLINESTERASE INHIBITOR FROM MACARANGA GIGANTEA BY DEREPLICATION STRATEGIES	NORIZAN BINTI AHMAT @ ABDUL HAMID	1/4/2021	31/3/2022	25000
61	SRP	IMPROVEMENT OF BIOACTIVITY OF ZIRCONIUM MESOPOROUS BOROSILICATE BIOACTIVE GLASS/PCL/PLA SCAFFOLDS	ROSDIYANA BINTI HASHAM @ HISAM	1/4/2021	31/3/2022	40000
62	SRP	MICROBIAL COMMUNITY STRUCTURE AND CARBAMAZEPINE TOLERANT BACTERIA FROM WASTEWATER TREATMENT PLANTS IN MALAYSIA AND INDONESIA	TAY CHIA CHAY	1/4/2021	31/3/2023	15000
63	EXTERNAL	FTIR STRUCTURAL ANALYSIS OR COATING FAILURE INVESTIGATION	NURUL FATAHAH ASYQIN BINTI ZAINAL	1/4/2021	30/9/2021	6500