



The World Academy of Sciences
for the advancement of science in developing countries

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34151 Trieste, Italy
☎ +39 040 2240-327
✉ info@twas.org
🌐 www.twas.org

Trieste, 25 September, 2018

To whom it may concern,

This is to inform that Dr. Suriani Abu Bakar, from Malaysia, RG Code_16-236 RG/MSN/AS_C, was awarded a TWAS-COMSTECH Research Grant award in 2016 in connection with the project entitled: “High-Efficiency Dye-Sensitized Solar Cell Based on Graphene-TiO₂ Nanocomposite Films” and has successfully completed her grant and submitted the final report.

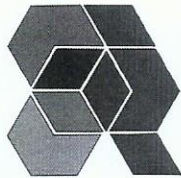
Max Paoli

TWAS Programme Coordinator



UNIVERSITI
PENDIDIKAN
SULTAN IDRIS
اوپوزیسیٹی قندییقن سلطان ادریس

SULTAN IDRIS EDUCATION UNIVERSITY



PUSAT PENGURUSAN PENYELIDIKAN
Research Management & Innovation Centre (RMIC)

Tingkat 2, Bangunan Canselori,
Universiti Pendidikan Sultan Idris,
35900 Tanjong Malim, Perak Darul Ridzuan
Tel : 05-450 6417, 6649, 6451, 6468, 6470 Faks : 05-459 4643
Emel : ppp@upsi.edu.my

MEMO

Kepada : **Prof. Madya Dr. Suriani binti Abu Bakar (Ketua)**
Prof. Madya Dr. Azmi Mohamed, Prof. Madya Dr. Norhayati Hashim, Prof.
Dr. Illyas Md. Isa, Prof. Madya Dr. Azlan Kamari, Dr. Mohamad Hafiz
Mamat (UiTM)
Fakulti Sains dan Matematik (FSM)

Daripada : Pengarah
Pusat Pengurusan Penyelidikan dan Inovasi

Ruj. Kami : UPSI/PPPI/PYK/645.21 Jld.3

Tarikh : 1 Februari 2017
4 Jamadilawal 1438H



PENDAFTARAN PENYELIDIKAN GERAN LUAR – TWAS-COMSTECH RESEARCH GRANT, ITALY

Kod : 2017-0001-102-11
Tajuk : **High-Efficiency Dye-Sensitized Solar Cell Based on Graphene-TiO₂ Nanocomposites Films**
Tempoh : 1 Januari 2017 - 1 Januari 2019

Dengan segala hormatnya saya merujuk kepada perkara di atas.

2. Terlebih dahulu bagi pihak Universiti, saya ingin mengucapkan tahniah dan syabas di atas kejayaan Prof. Madya Dr. mendapat geran dari The World Academy of Science (TWAS) – Committee on Scientific and Technological Cooperation (COMSTECH) Research Grant, Italy.

3. Sukacita dimaklumkan bahawa Universiti tiada halangan untuk Prof. Madya Dr. menjalankan penyelidikan di atas dengan peruntukan keseluruhan sebanyak **Ringgit Malaysia: Tiga Puluh Lapan Ribu Satu Ratus Lapan Puluh Enam dan Sen Dua Puluh Lima Sahaja (RM38,186.25)**.

Muka surat 1/2



4. Prof. Madya Dr. dimohon untuk mengemukakan salinan laporan kemajuan dan laporan akhir kepada RMIC bagi tujuan rekod. Prof. Madya Dr. juga dimohon supaya mematuhi segala syarat yang ditetapkan oleh TWAS-COMSTECH RESEARCH GRANT, ITALY berdasarkan persetujuan yang telah dibuat oleh kedua-dua pihak.

Pihak RMIC mengucapkan tahniah sekali lagi dan selamat maju jaya.

Sekian, terima kasih.

“KOMITED MEMBAWA PERUBAHAN DALAM PENDIDIKAN”

Yang menjalankan tugas,


(PROF. MADYA DR. TAJUL SHUHAIZAM SAID)

s.k. Timbalan Naib Canselor (Penyelidikan dan Inovasi)
Dekan FSM
Timbalan Dekan (Penyelidikan dan Inovasi) Fakulti - FSM
Fail Penyelidik (2017-0001-102-11)



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🌐 www.twas.org

Our Ref.: **16-236 RG/MSN/AS_C – FR3240293274**
(please quote in all correspondence)

12 December 2016

Dear Dr. Abu Bakar,

It gives me great pleasure to inform you that your project has been selected by the Advisory Committee for the TWAS Research Grants Programme. The selection of TWAS Research Grants is highly competitive, based purely on scientific merit, and has been made out of a very large number of applications. Please accept our most heartfelt congratulations.

I am also pleased to inform you that TWAS has approved a grant amounting to **USD 8,500.00** in support of your project entitled **High-Efficiency Dye-Sensitized Solar Cell Based on Graphene-TiO₂ Nanocomposites Films**. An increase of up to 10% of this amount depending on availability of funds can be authorized by TWAS if a substantial need for this increase is established. The grant is given for a research period of up to 24 months starting from the date on the attached Research Grant Agreement (RGA).

The grant is subject to special conditions specified in the enclosed agreement, which you are kindly requested to read carefully. If you agree to the conditions of the agreement, please sign it and have it officially countersigned by the head of your institute. The signed copy, as well as the proforma invoice(s) and any future correspondence, should be sent to Ms. P. Patel (researchgrants@twas.org). Please make sure that we receive the signed agreement within one month from the date of the RGA. If no signed agreement is received during this period, the offer may be cancelled.

Our normal policy is to retain the funds of the grant here at the Academy for international purchase of equipment, expendable laboratory supplies and literature as specified in the itemized budget (point 7, Section A). The procedure for ordering the items needed for the

Dr. Suriani Abu Bakar
Department of Physics
Faculty of Science and Mathematics,
Universiti Pendidikan Sultan Idris
Idris 35900
Tanjung Malim Perak
Malaysia

project under this grant is outlined in point 4, Section C.

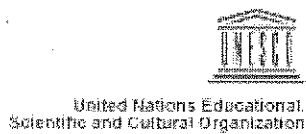
Enclosed please also find the Final Report – for you to complete and return to this office. The Final Report is due within one year from the last order of items under this grant. Receiving this report well before the deadline is extremely important in that they form the basis for the evaluation of the outcome of your project and are a prerequisite for a subsequent renewal of the grant. You may request a renewal (submitting the relevant application form) only after submission of the Final Report, and before the application deadline of each year.

Should you have any queries, please do not hesitate to contact us.

Yours sincerely,

A handwritten signature in black ink, appearing to read 'M. Hassan', written in a cursive style.

Mohamed H. A. Hassan
Executive Director, a.i



THE UNITED NATIONS EDUCATIONAL,
SCIENTIFIC AND CULTURAL ORGANIZATION
headquartered in Paris, France
The World Academy of Sciences for the advancement of
science in developing countries (TWAS), – www.twas.org

To facilitate the contact between TWAS Awardees and suppliers of laboratory equipment needed under the TWAS Research Grant programme, this summary of UNESCO procurement principles has been prepared. The Awardees may as needed connect potential suppliers with UNESCO personnel at TWAS in Trieste, Italy, for clarifications and information.

Annex to contracts under the Research Grants program

Additional information on purchases to be carried out by UNESCO / TWAS.

UNESCO was founded on 16 November 1945. UNESCO has more than 50 field offices around the world. Its headquarters are located in Paris, France. UNESCO has designated 98 International and Regional Institutes and Centres.

TWAS is a program unit of UNESCO located in Trieste, Italy. One of its programs is the Research Grant program under which UNESCO / TWAS purchases laboratory equipment for awardees. The program and its procurement is managed in compliance with UNESCO rules and policies.

UNESCO procurement principles are based on:

- Best value for money
- Fairness, integrity and transparency in the procurement process
- Economy and effectiveness: Economy and effectiveness refers to the extent to which UNESCO is successful in carrying out its procurement operations ensuring the right quantity and quality, at the right time, at the right price and to the right place, and also the extent to which the overall costs in conducting the procurement process are minimized in the interest of the overall budget of the Organization.

Competitive Procurement: Strict procurement processes including review and the approval have been established. Contracts between USD 5,000 and 49,999 require a minimum of 3 responsive quotations through an informal method of solicitation.

Commitments and payments: The conditions for execution and payments are established according to the financial and administrative rules and regulations currently in force.

A procurement contract is a legally binding document between UNESCO and the supplier, and defines, at a minimum, the nature of the product being procured, the quantity being procured, the overall contract and/or unit price, the period covered, conditions to be fulfilled, including the UNESCO General Terms and Conditions, terms of delivery and payment, and those details required to identify the supplier (i.e. name and address).

Advance payments and pre-payments:

“Payment from funds of the Organization shall be made only for services rendered or goods delivered, except under special circumstances provided in these Rules where advance payments are authorized.”

The principle of advance payments up to a maximum of 33 per cent of the total contract, under exceptional or special circumstances, has been recognized by UNESCO since advance payments (for example, for IT maintenance) or pre-payments (for example, for rent and other utility costs) may serve the financial interests of the Organization.

Such contractual arrangements may be made as long as the necessary safeguards are in place to ensure that the contracted services, goods and works are delivered, for example, by providing for reimbursement in case of non-delivery and other mitigating actions such as bank guarantees, and that advance payments are linked to specific deadlines or completion of an activity. Such safeguards should be clearly set out in the contractual document.

Summary:

Payment terms: Normally payment is upon delivery and any advance payment should not exceed 33%.

Bank transfers fees should be charged to bank beneficiaries

Suppliers are required to sign UNESCO General Terms, which is referring to UNCITRAL for mediation and conflict solving.

1. ACCEPTANCE OF THE CONTRACT

This Contract may only be accepted by the Contractor's signing and returning an acknowledgement copy of it or by timely delivery of the goods in accordance with the terms of this Contract, as herein specified. Acceptance of this Contract shall effect a Contract between the Parties under which the rights and obligations of the Parties shall be governed solely by the terms and conditions of this Contract, including these General Conditions. No additional or inconsistent provisions proposed by the Contractor shall bind UNESCO unless agreed to in writing by its duly authorized official.

2. GOODS AND SERVICES DEFINED

Goods are hereinafter deemed to include, without limitation, equipment, spare parts, commodities, raw materials, components, intermediate products and products which the Contractor is required to supply under this Contract. Services are hereinafter deemed to include services ancillary to the supply of the goods including, without limitation, installation, training, transportation and such other obligations as required under this Order.

3. PAYMENT

UNESCO shall, on fulfillment of the Delivery Terms, unless otherwise provided in this Contract, make payment within 30 days of receipt of the Contractor's invoice for the goods and copies of the shipping documents specified in this Contract. Payment by UNESCO does not imply acceptance of goods nor of any related work or services under this Contract. All payments shall be effected by bank transfer. UNESCO shall be responsible for its own banking fees but any possible intermediary banking fees, as well as the beneficiary's own banking fees, shall be the responsibility of the Contractor. All payments shall be effected by bank transfer. UNESCO shall be responsible for its own banking fees but any possible intermediary banking fees, as well as the beneficiary's own banking fees, shall be the responsibility of the Contractor.

4. TAX EXEMPTION

Section 7 of the Convention on Privileges and Immunities of the Specialized Agencies provides, inter alia, that UNESCO and its subsidiary organs are exempt from all direct taxes and are exempt from customs duties in respect of articles imported or exported for its official use. Accordingly, the Contractor authorizes UNESCO to deduct from the Contractor's invoice any amount representing such taxes or duties charged to UNESCO by the Contractor. Payment of such adjusted amount shall constitute full payment by UNESCO. In the event any taxing authority refuses to recognize the UNESCO exemption from such taxes or duties, the Contractor shall immediately consult with UNESCO.

5. TRADE TERMS

Whenever an INCOTERM is used in this Contract it shall be interpreted in accordance with the INCOTERMS 2000.

6. EXPORT LICENSES

The Contractor shall obtain any export license(s) required for the goods.

7. INSPECTION AND ACCEPTANCE

All goods shall be subject to inspection and testing by UNESCO or its designated representative, to the extent practicable, at all times and places, including the period of manufacture and, in any event, prior to final acceptance by UNESCO. If any inspection or test is made on the premises of Contractor or its supplier, the Contractor, without additional charge, shall provide all reasonable facilities and assistance for the safety and convenience of the inspectors in the performance of their duties. All inspection and tests on the premises of the Contractor or its supplier shall be performed in such a manner as not to unduly delay or disrupt the ordinary business activities of the Contractor or supplier. Final acceptance or rejection of the goods shall be made as soon as practicable after delivery, but failure to inspect and accept or reject goods shall neither relieve Contractor from responsibility for non-conforming goods nor impose liabilities on UNESCO therefore. The Contractor shall provide and maintain an inspection, quality, and manufacturing process control system covering the goods which is acceptable to UNESCO. Records of all inspection work by Contractor shall be kept complete and made available to UNESCO during the performance pursuant to this Contract and for twenty four (24) months thereafter or for such other period as may be specified in this Contract. Copies of all material certifications and test results are to be submitted to UNESCO upon request.

8. FITNESS OF GOODS INCLUDING PACKAGING

Contractor warrants that the goods conform to the specifications and are fit for the purposes for which such goods are ordinarily used, as well as for purposes, in locations and under circumstances made known to the Contractor by UNESCO. Contractor warrants that the goods are new, of current manufacture and free from defects in design, workmanship and materials. The Contractor also warrants that the goods are securely contained, packaged and marked, taking into consideration and the mode(s) of shipment, in a manner so as to protect the goods during delivery to their ultimate destination. Unless a longer period is specified in this Contract, the Contractor warrants and certifies that it will repair or replace without expense to UNESCO or its clients any goods or components which prove to be defective in design, material, or workmanship within a period of one (1) year from the date such goods are placed in use.

9. AFTER SALES SERVICE

The Contractor shall maintain or provide a service organization reasonably constituted to handle requests from UNESCO or its clients for technical assistance, maintenance, service, repairs and overhaul of the goods.

10. INDEMNIFICATION

The Contractor shall indemnify, hold and save harmless and defend at its own expenses UNESCO, its personnel and its clients from and against all suits, claims, demands, and liability of any nature or kind, including costs and expenses arising out of acts or omissions of the Contractor or its personnel or others responsible to the Contractor in the performance pursuant to this Contract.

11. PATENT INDEMNIFICATION

Contractor shall defend at its own expenses any suit or proceeding brought against UNESCO or its clients based on a claim that any goods or the normal use thereof furnished under this Contract constitute any infringement of any patent of any country, if notified promptly in writing and given authority, information and assistance (at Contractor's expenses) for the defense of same, and Contractor shall pay all damages and costs awarded therein against UNESCO or its clients. In case use of said goods or any part is enjoined, Contractor shall, at its own expense and at its option, either procure of UNESCO or its clients the right to continue using the goods, modify them so they become non-infringing or, with the approval of UNESCO, remove said goods and refund the purchase price, including transportation and installation costs.

12. FIRE AND EXTENDED COVERAGE INSURANCE

At all times prior to delivery, the Contractor shall effect and maintain continuous fire, hazard and extended coverage insurance upon any goods subject to this Contract in an amount equal to the sound insurable value of such goods and labour incorporated therein with loss payable to the Contractor and UNESCO as their interests may appear.

13. VARIATION IN QUANTITIES

The quantities specified in this Contract must not be exceeded or decreased without the prior written authorization of UNESCO.

14. CHANGES

UNESCO may at any time by written instruction make changes within the general scope of this Contract. If any such change causes an increase or decrease in the price of or the time required for performance pursuant to this Contract, an equitable adjustment shall be made in the Contract price, or delivery schedule, or both and the Contract shall be either amended or terminated and reissued accordingly. Any claim by the Contractor for adjustment under this paragraph must be asserted within thirty (30) days from the date of receipt by the Contractor of the notification of change; providing, however, that UNESCO may, at its sole discretion, receive and act upon any such claim asserted at any time prior to final payment under this Contract. Failure to agree to any adjustments shall be a controversy within the meaning of Clause 22. However, nothing in this Clause shall excuse the Contractor from proceeding with the Contract as changed. No modification or change in the terms of this Contract shall be valid or enforceable against UNESCO unless it is in writing and signed by a duly authorized representative of UNESCO.

16. TERMINATION FOR CONVENIENCE

UNESCO may terminate this Contract, in whole or in part, upon notice to the Contractor. Upon receipt of notice of termination, the

Contractor shall take immediate steps to bring the work and services to a close in a prompt and orderly manner, shall reduce expenses to a minimum and shall not undertake any forward commitment from the date of receipt of notice of termination. In the event of Termination for Convenience, no payment shall be due from UNESCO to the Contractor except for work and services satisfactorily performed prior to termination, for expenses necessary for the prompt and orderly termination of the work and for the cost of such necessary work as UNESCO may request the Contractor to complete. To the extent that the computation of such payment due from UNESCO may not make the Contractor whole in respect of termination under this provision, the Contractor may claim an equitable adjustment in accordance with the procedures for equitable adjustment referred to in Clause 14 above.

16. REMEDIES FOR DEFAULT

In case of failure by the Contractor to perform according to this Contract, including but not limited to failure to obtain necessary export licenses or to make delivery of all of the goods by the agreed delivery date, UNESCO may, after giving the Contractor reasonable notice to perform and without prejudice to any other rights or remedies, exercise one or more of the following rights: (1) procure all or part of the goods from other sources, in which event UNESCO may hold the Contractor responsible for any excess costs occasioned thereby; (2) refuse to accept delivery of all or part of the goods; (3) terminate this Contract; (4) require Contractor to ship via premium means, at Contractor's expenses, to meet the delivery schedule; (5) impose liquidated damages.

17. LIQUIDATED DAMAGES FOR DELAY

Subject to Clause 18, if the Contractor fails to deliver all or part of the goods or perform any of the services within the time period specified in the Contract, UNESCO may, without prejudice to any other rights and remedies, deduct from the total price stipulated in this Contract an amount of 0.5% of the price of such goods or unperformed services for each week of delay (or part thereof), up to a period of 8 weeks.

18. FORCE MAJEURE

Notwithstanding the provisions of Clauses 16 and 17, the Contractor shall not be liable for default or liquidated damages, to the extent that its failure to perform its obligations under this Contract is the result of an event of Force Majeure. For purposes of this Contract, Force Majeure is defined as an event beyond the control of the Contractor, not involving the Contractor's fault or negligence and not foreseeable and includes acts of God, natural disasters, war (whether or not declared) and other events of a similar nature or force.

19. SOURCE OF INSTRUCTION

The Contractor shall neither seek nor accept instructions from any authority external to UNESCO in connection with the performance pursuant to this Contract. The Contractor shall refrain from any action which may adversely affect UNESCO.

20. OFFICIALS NOT TO BENEFIT

The Contractor warrants that no official of UNESCO or any Government has received or will be offered by the Contractor any direct or indirect benefit of any kind, or any gift, payment or other consideration in connection with or arising from this Contract or the award thereof. The Contractor agrees that breach of this provision is breach of an essential term of this Contract.

21. USE OF NAME EMBLEM OR OFFICIAL SEAL UNESCO

Unless authorized in writing, the Contractor shall not advertise or otherwise make public the fact that it is performing, or has performed, services for UNESCO or use the name (or any abbreviation thereof), emblem or official seal of UNESCO for advertising or for any other purpose.

22. ASSIGNMENT AND INSOLVENCY

The Contractor shall not, except after obtaining the prior written approval of UNESCO, assign, transfer, pledge or make other disposition of this Contract or any part hereof or any of the Contractor's rights or obligations under this Contract. Should the Contractor become insolvent or should control of the Contractor change by the virtue of insolvency, UNESCO may, without prejudice to any other right or remedy, terminate this Contract by giving the Contractor written notice of such termination.

23. CHILD LABOUR

The Contractor represents and warrants that neither it nor any of its affiliates is engaged in any practice inconsistent with the rights

set forth in the Convention on the Rights of the Child, including Article 32 thereof, which, inter alia, requires that a child shall be protected from performing any work that is likely to be hazardous or to interfere with the child's education, or to be harmful to the child's health or physical, mental, spiritual, moral or social development. Any breach of this representation and warranty shall entitle UNESCO to terminate this Contract immediately upon notice to the Contractor, without any liability for termination charges or any other liability of any kind of UNESCO.

24. MINES

The Contractor represents and warrants that neither it nor any of its affiliates is actively and directly engaged in patent activities, development, assembly, production, trade or manufacture of mines or in such activities in respect of components primarily utilized in the manufacture of Mines. The term "Mines" means those devices defined in Article 2, Paragraphs 1, 4 and 5 of Protocol II annexed to the Convention on Prohibitions and Restrictions on the Use of Certain Conventional Weapons Which May Be Deemed to Be Excessively Injurious or to Have Indiscriminate Effects of 1980. Any breach of this representation and warranty shall entitle UNESCO to terminate this Contract immediately upon notice to the Contractor, without any liability for termination charges or any other liability of any kind of UNESCO.

25. ARBITRATION

Any controversy or claim arising out of or in connection with any provision of this Contract or any breach thereof, shall, unless it is settled by direct negotiation, be settled in accordance with the UNCITRAL Arbitration Rules in force at the date of this Contract. UNESCO and the Contractor shall be bound by any arbitration award rendered as a result of such arbitration as the final adjudication of any such controversy or claim.

Where, in the course of such direct negotiation referred to above, the parties wish to seek an amicable settlement of such dispute, controversy or claim by conciliation, the conciliation shall be bound by any arbitration award rendered as a result of such arbitration as the final adjudication of any such controversy or claim.

26. PRIVILEGES AND IMMUNITIES

Nothing in or relating to this Contract shall be deemed a waiver of any of the privileges and immunities of UNESCO.

27. SECURITY

The responsibility for the safety and security of the Contractor and its personnel and property, and of UNESCO property in the Contractor's custody, rests with the Contractor.

The Contractor shall:

- (a) put in place an appropriate security plan and maintain the security plan, taking into account the security situation in the country where the services are being provided;
 - (b) assume all risks and liabilities related to the Contractor's security, and the full implementation of the security plan.
- UNESCO reserves the right to verify whether such a plan is in place, and to suggest modifications to the plan when necessary. Failure to maintain and implement an appropriate security plan as required hereunder shall be deemed a breach of this contract. Notwithstanding the foregoing, the Contractor shall remain solely responsible for the security of its personnel and for UNESCO property in its custody as set forth in condition 27 above.

28. ANTI-TERRORISM

The Contractor agrees to undertake all reasonable efforts to ensure that none of the UNESCO funds received under this Contract are used to provide support to individuals or entities associated with terrorism and that the recipients of any amounts provided by UNESCO hereunder do not appear on the list maintained by the Security Council Committee established pursuant to resolution 1267 (1999). The list can be accessed via <http://www.un.org/Docs/sc/committees/1267/1267ListEng.htm>. This provision must be included in all sub-contracts or sub-agreements entered into under this Contract.



MEMO

Kepada : Prof. Dr. Suriani binti Abu Bakar, Prof. Madya Dr. Azmi Mohamed, Prof. Madya Dr. Norhayati Hashim, Prof. Dr. Illyas Md. Isa, Prof. Madya Dr. Azlan Kamari, Dr. Mohamad Hafiz Mamat (UiTM) - FSM

Daripada : Timbalan Pengarah
Pusat Pengurusan Penyelidikan dan Inovasi

Ruj. Kami : UPSI/PPPI/PYK/645.7 Jld. 7 (b)

Tarikh : 1 Mac 2019
24 Jamadilakhir 1440H

LAPORAN AKHIR PENYELIDIKAN DAN PENUTUPAN AKAUN PENYELIDIKAN GERAN LUAR

Tajuk : High-Efficiency Dye-Sensitized Solar Cell Based on Graphene-TiO₂ Nanocomposites Films

Kod Penyelidikan : 2017-0001-102-11 (GL ANTARABNGSA)

Tempoh Penyelidikan : 1 Jan. 2017 - 1 Jan. 2019

Dengan segala hormatnya saya merujuk kepada perkara di atas.

2. Adalah dimaklumkan bahawa Mesyuarat Jawatankuasa Kerja Penyelidikan Universiti Kali Ke 78 Bil. 2/2019 pada 19 Februari 2019 bersetuju untuk menerima laporan akhir yang dikemukakan

3. Sehubungan dengan itu, sukacita dimaklumkan bahawa penyelidikan ini telah **tamat** dan **akaun penyelidikan** ini akan **ditutup** selepas **3 bulan** daripada **tarikh tamat penyelidikan**.

Pihak RIMC mengucapkan tahniah di atas kejayaan puan dan kerjasama puan dalam perkara ini saya dahului dengan ucapan terima kasih.

Sekian.

“UNIVERSITI NO. 1 PENDIDIKAN”

Saya Yang Menjalankan Amanah,


(PROFESOR MADYA DR. AHMAD JAZIMIN BIN JUSOH)

s.k. - Timbalan Naib Canselor (Penyelidikan & Inovasi)
- Dekan Fakulti
- Timbalan Dekan (P&I) Fakulti
- Unit Kewangan RMIC
- Fail Penyelidik

