

**KERATAN AKHBAR-AKHBAR TEMPATAN**  
**TARIKH: 30 OGOS 2016 (SELASA)**

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**KERATAN AKHBAR  
HARIAN METRO (KELAB WARTAWAN) : MUKA SURAT 7  
TARIKH : 30 OGOS 2016 (SELASA)**



Program Q-STEM mampu memberi inspirasi kepada pelajar.

Tekun ikuti program.

# Program Q-STEM



Jelajah Q-STEM memberi pengetahuan berkaitan al-Quran, sains dan teknologi.

kemahiran imaginasi dan reka bentuk

- Bijak Mengira: memfokuskan kepada kemahiran pengiraan
- Uji Minda

Ketika ini nisbah pelajar yang mengikut pengajian dalam bidang ini sangat minimum sedangkan negara memerlukan ramai tenaga kerja mahir dalam bidang tersebut untuk melonjakkan pembangunan negara. Bagi meningkatkan minat pelajar untuk memilih bidang sains, teknologi, kejuruteraan dan matematik sebagai karier masa depan.

"Harapan saya program ini akan menjadi sumber inspirasi kepada pelajar untuk berjaya dalam jurusan tersebut serta melahirkan pakar dalam jurusan STEM kerana pelajar kita kurang memelopori bidang ini.

"Tidak kira apa pilihan kerjaya mereka, kami percaya bahawa anak-anak muda perlukan pemahaman jelas mengenai al-Quran dan STEM untuk maju dengan teknologi yang sentiasa berubah, sama ada di tempat kerja tempatan atau antarabangsa," kata Muhammad Nazir.

**Objektif bagi Program Q-STEM ini adalah:**

1. Mencetuskan dan menimbulkan minat pelajar generasi baharu untuk mempelajari al-Quran dan STEM melalui pendekatan pembelajaran berpusatkan pelajar, pembelajaran berasaskan projek, aktiviti yang multi-disiplin dan pembelajaran melalui inkuiri.
2. Menyediakan suasana pembelajaran STEM yang menyeronokkan.
3. Meningkatkan kemahiran proses STEM, kemahiran abad ke-21, kemahiran saintifik, kemahiran berfikir aras tinggi (KBAT) dan kemahiran penyelidikan pelajar-pelajar.
4. Meluaskan pandangan pelajar tentang aplikasi sains dalam kehidupan dan kerjaya dalam bidang sains dan teknologi.
5. Meningkatkan keterlibatan (engagement) ibu bapa pelajar sekolah melalui beberapa aktiviti bagi tujuan meningkatkan peranan ibu bapa.
6. Mencungkil bakat generasi baharu yang terpendam dalam diri pelajar. Kepada mana-mana pihak seperti masjid/surau, sekolah dan pusat-pusat pengajian yang berminat, bolehlah menjemput kami ke tempat anda untuk dilaksanakan program ini. Pada yang ingin mengikuti perkembangan Program Q-STEM ini boleh melawati FB page Q STEM.



Belajar melukis reka bentuk pada kertas.



Belajar mengira.



Meningkatkan kemahiran mengira.

**K**ementerian Sains, Teknologi dan Inovasi (Mosti) telah merangka pelbagai usaha untuk membudayakan bidang sains, teknologi, kejuruteraan dan matematik (STEM) dalam kalangan rakyat di negara ini. Inisiatif ini adalah selaras dengan Dasar Sains, Teknologi dan Inovasi Negara (DSTIN) yang telah diluluskan oleh kerajaan pada tahun 2013.

Untuk menjadi negara maju, kita memerlukan 60 peratus pelajar dalam bidang STEM kerana bidang-bidang tersebut yang akan melonjakkan ekonomi negara seperti menerusi inovasi dalam bidang kejuruteraan dan sains termasuk alam sekitar.

Atas matlamat ini, Pensyarah Kanan, Fakulti Kejuruteraan, Universiti Selangor (Unisel), Muhammad Nazir Mohammed Khalid turut terpenggil untuk menjayakan usaha murni ini.

Beliau bersama beberapa rakan mula turun padang ke sekolah, masjid serta surau untuk memberi pengetahuan berkaitan bidang ini. Jelajah Q-STEM dilancarkan adalah bertujuan memberi pengetahuan kepada orang ramai serta pelajar berkaitan al-Quran, sains dan teknologi.

Terkini satu program telah dijalankan di Sekolah Menengah Kebangsaan Sungai Tong, Setiu, Terengganu. Seramai 60 pelajar terlibat iaitu pelajar tingkatan 3 hingga 6. Program ini merupakan anjuran Syarikat Usahawan Point bersama SMK Sg Tong dengan menjemput wakil Q-STEM untuk melaksanakan aktiviti bersama pelajar.

Antara penerangan dan aktiviti yang dijalankan ialah:

- Al-Quran Mendahului Sains
- Al-Quran Memacu Teknologi
- Arkitek Muda: memfokuskan kepada

# Science, sealed and delivered

**ADVANTAGES:** Many improvements in our lives owe a lot to scientific research

**S**CIENCE has transformed the world. It has made impressive contributions to humanity.

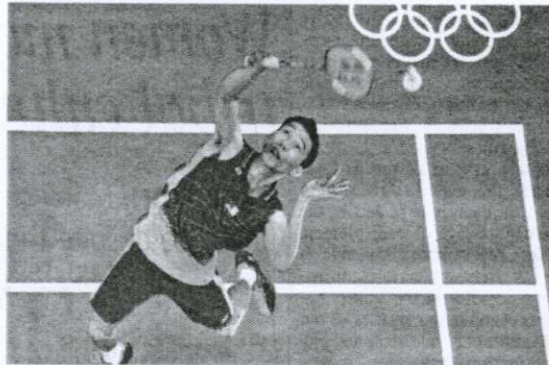
Decades ago, we did not have what we enjoy today. Some even take them for granted. Many of the improvements owe a lot to science.

Thanks to the progress made in scientific research and discovery, the world has neutralised many threats to our wellbeing. Look at the countless diseases that we have tamed through advancements in medical science.

The science of vaccination, for example, has virtually wiped out most contagious diseases of the past. But we must be warned that any relaxation in the implementation of vaccination can lead to a resurgence of those diseases.

This explains why many are worried about people's apprehensions about vaccination. I hope this will be resolved soon.

The other advancement in science is in telecommunication. The world is now like a small village thanks to advances in digital revolution. Without it, we would not have witnessed the nail-biting matches at the Rio Olympics.



The digital revolution allowed people to watch nail-biting matches at the Rio Olympics.

It would not have been possible to see how our badminton players fought to earn the country's first Olympic gold. All this has happened through research in science. It began with the fundamentals of science. The applied side would shape up years later.

The commercial applications of breakthroughs in fundamental science can take decades. The Internet took two decades before it became a commercial reality.

In Malaysia, there is this absurd expectation that research must be commercialised in two or three years. This needs to change.

Over the years, the West had led the way in telecommunications science. The same is true in medical research. It is difficult for us to match the advances made by them.

They had an early start. Scientists

from the West dominate many of the breakthroughs in such sciences, but this is not to say we are left out.

Occasionally, we do have local scientists coming out with meaningful contributions. But these have been rare, and therefore the impact of local research on such fields is minimal.

This is not to suggest that we have no way of stamping our mark on scientific advancements.

In fact, looking back at history, we have made our mark. Unfortunately, this has been neglected and we are losing a hold on that global mark.

I am referring to the mark we once made in natural rubber, tropical medicine and forest researches.

Not long ago, we virtually led the world in such sciences. I know for a fact that our *Natural Rubber Journal* was the reference publication on any

new breakthrough in natural rubber science.

This was because natural rubber scientists the world over would consider it a privilege if their research articles were accepted by the journal. This is no longer the case.

The once prestigious journal may soon disappear due to a lack of articles.

We also once ruled world science for tropical forests. Many findings from the world over would find their way into our *Forest Research Institute Journal on Forestry*. Not any more.

The same thing is happening for palm oil. We should reverse this trend and can do it because we do enjoy a niche advantage in these areas.

There is a way to do it. Instead of making the key performance indicators for our scientists to give higher priority to publish in international-refereed journals, we should give them incentives to support local journals.

We need to build the global reputation of our journals to be on a par with foreign journals.

In this way, we can also attract the best articles on the subject from scientists outside the country.

It is not impossible. We did it before. We need to embark on a programme to revive and stamp our mark on world science.

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DR AHMAD IBRAHIM

