



**By 2030 eThekweni will be Africa's
most caring and liveable city**



**OFFICE OF THE DEPUTY CITY MANAGER: SUPPORT SERVICES
HUMAN SETTLEMENT, ENGINEERING SERVICES & TRANSPORT AUTHORITY CLUSTER
&
TRADING SERVICES CLUSTER**

STEM

What does the acronym STEM
stand for:
Prize



MISSION STATEMENT



“To be the home of **STEM INITIATIVES** focusing on Science, Technology, Engineering and Mathematics within the eThekweni Municipal Area.”

PURPOSE

Programme 5.4 of the Integrated Development Plan (IDP): “Creating a Platform for Growth, Empowerment and Skills Development Programme

“The objective of this programme:

- ***Is to develop and implement a multi-year plan to address the scarce skills within the municipality,***
- ***To enhance the sustainability of scarce skills by continuing to support the development of maths and science for both learners and teachers***
- ***To develop, integrate and implement language, literacy and numeracy skills to respond to economic, social and political participation and productivity.***
- ***The aim is to raise the education base of young and adult people to enable them to take on further learning and/or employment***



VISION

- **To uplift STEM performance in learners;**
- **To increase the number of learners that take part in STEM subjects at junior/secondary level;**
- **To improve the Learners performance in Mathematics, Physical Science and Technology at school level so that more Learners can pursue careers requiring these subjects at tertiary level;**
- **To provide adequate career guidance and exposure for wise career decision making;**
- **To provide space of work experience, exposure, career excursions and career talk sessions;**
- **To increase the technologically skilled human resource base;**
- **Mentoring programmes;**
- **Educators conferences, Symposiums, STEM Competitions;**
- **To improve employment opportunities and ultimately improve the economy of the country**

OBJECTIVES

- To expose learners to the working world through career talks, work experience, site visits, science & technology exhibitions
- Provide Learners with support in their career decision-making process through group and individual career counselling;
- Ensure that learners have the skills, knowledge and values for successful integration into the working world;
- Improve Maths, Science and Technology education in schools to prepare more students to qualify and complete Engineering studies at University level, increasing their employment opportunities;
- Encourage and inspire Learners, especially those from under represented or disadvantaged groups to study in the maths, science and technology field; and
- Supplement Learner and Teacher Support Material.

PROJECT DELIVERY 1:

HS&I Support Services will help alleviate the Scarce Skills shortage by introducing the following initiatives

ITEM	PROJECT	DESCRIPTION	NO. OF PROGRAMMES PER FINANCIAL YEAR	IMPLEMENTATION DATES
1.	Mentoring Programmes	Support existing <i>learner and teacher</i> mentoring programmes within various departments in the Trading Services and Human Settlements; Engineering and Transport Authority (ETA) Clusters by offering expertise assistance and continuous reporting to the relevant stakeholders.		
2.	Symposiums & Career Guidance	Co-ordinate MST annual symposiums and careers guidance day/week. These can be implemented in two folds such as;		
	Grade 10 & 11	1.A one day major event hosted at each Region of eThekweni Municipality targeted schools in that area (one symposium per annum) or; 2.It can be done over one week (five working days) at a central venue where schools from all regions can be invited to attend over the different days. 3.A one week (five working days) at each Region in partnership with Metrorail, using their train to take the Exhibitors to the Regions and host the Career Guidance to a local train station in each Region		
	Grade 8 & 9	Conduct Blitz/Roadshows at the various school where we give motivational talks about MST and play videos of "The Life of an Engineer"		

PROJECT DELIVERY 1:

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ITEM	PROJECT	DESCRIPTION	NO. OF PROGRAMMES PER FINANCIAL YEAR	IMPLEMENTATION DATES
3.	Competitions	Promote local and international MST competitions to the previously disadvantaged schools within eThekweni Municipality and help source funding from external stakeholders for the learners that are competent to participate but do not have resources to do so		
4.	Early Learning	Promote early learning of MST in Primary Schools by introducing various interactive learning material tools such as problem solving games that portray the importance of these subjects and how they impact our lives in our normal day to day living.		
5.	Secondary Learning Support	Assist the previously disadvantaged schools that do not have access to adequate learning resources such as Science & Computers Labs, by providing them with Educational Audio Visual Material like recorded lessons of Maths and Science specialists, to afford them the opportunity of fair learning in these critical subjects. The required material and equipments can be sourced through sponsorships or directly funded by the "Home of MST" since it is a direct MST learning tool.		

The success of these events highly depends on the commitment of stakeholders and the funding/sponsorship which HS&I Support Services is prepared to seek.

**PROJECT DELIVERY 2:
LONG TERM: TO BE ACHIEVED BY 2020**

ITEM	PROJECT	DESCRIPTION	NO. OF PROGRAMMES PER FINANCIAL YEAR	IMPLEMENTATION DATES
1	Science Centre:	Resuscitate the negotiations between eThekweni Municipality and all external stakeholders (ENGEN, SAPREF, TOYOTA, etc) of building a central fully fledged Science Centre within eThekweni Municipality that will be accessible to all residents of the City.		
2	Special School	Build an MST focused school of excellence . This school will have an intake of only the gifted pupils who have a track record of outstanding results. Thorough assessments will be conducted for screening of these potential pupils to ensure that only top performers are selected. The school should be fully equipped with the correct learning resources to ensure that these learners get the real exposure to these scarce skills opportunities.		
3	FET Colleges in KZN	The Department of Higher Education is planning to launch 10 new FET colleges in KZN. The HS&I Support Services hopes to negotiate that one of these campuses be considered for this School of Excellence project		

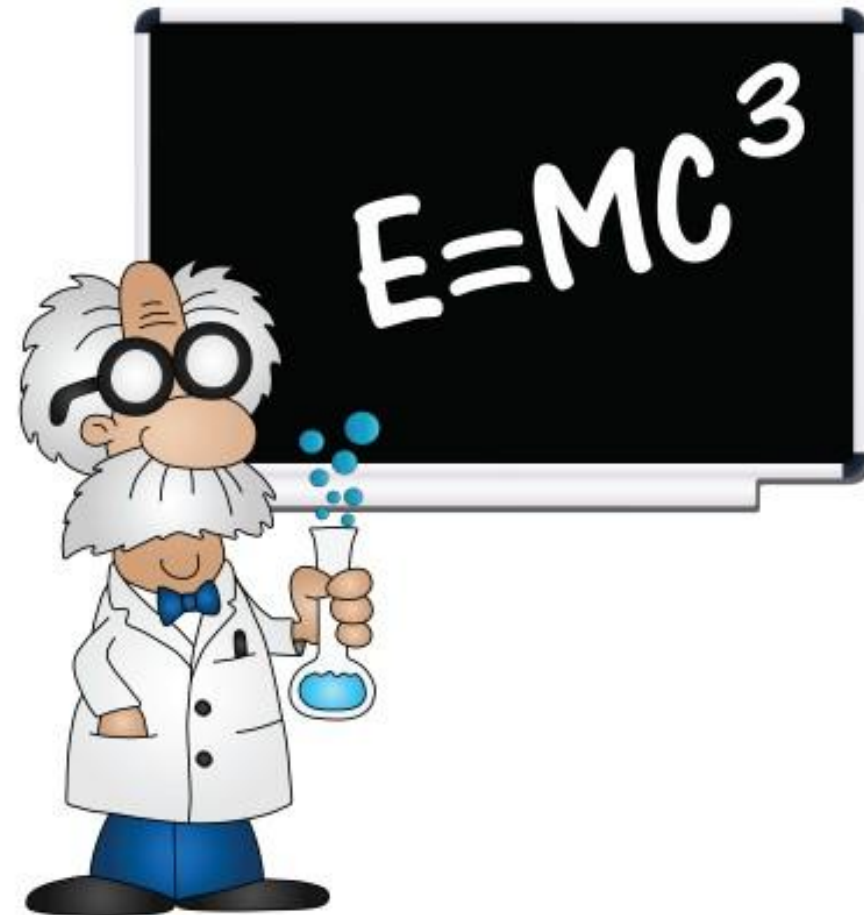
TYPES OF ENGINEERING

- Can you give me 3 types of Engineering (PRIZE)
- Where can you study Engineering i.e to do a BSc Degree (PRIZE)

BURSARIES

The Municipality offers Bursaries to Grade 12 Learners

- Electrical Engineering
- Chemical Engineering
- Civil Engineering
- Mechanical Engineering
- Transport Engineering
- Land Surveyors
- Scientists



MARKETING AWARENESS OF PROGRAMMES, COMPETITIONS, EXPOS

- EtheKwini Metro Paper (Ezasegagasini)
- EtheKwini Web site (internet)
- Webpage
- Advertise in the Local Newspapers

THANK YOU



“ Education is the most powerful weapon which you can use to change the world” – Nelson Mandela