

# STEM (Science, Technology, Engineering, Maths)

The Teacher Development Centre is a not-for-profit professional development provider, working in partnership with the Australian Education Union and the Independent Education Union to bring high quality, full service professional development to leaders, teachers and support staff in schools.



## **Teaching problem solving through design thinking**

**Thursday 3<sup>rd</sup> May, South Melbourne**

Design Thinking and Computational Thinking are at the heart of an effective approach to STEM in the curriculum. Participants will experience a hands-on design challenge and Adrian will model HOW teachers can facilitate these types of activities and projects with their students no matter the age. The second part of the day will use the design thinking framework as the guide for teachers to explore embedding the Technologies Curriculum into their schools. Videos of STEM teachers from around Australia will be partnered with individual and group discussions to support participants to successfully embed Design and Computational Thinking into their school curriculum.

## **Understanding natural and artificial intelligence**

**Friday 10<sup>th</sup> August, Abbotsford**

Artificial Intelligence (AI) changes everything for education. AI has the capacity to improve learning. AI projects provide opportunities to accelerate learning across different STEM subjects. Using AI, teachers will be able to provide learners with educational experiences that are more personalised, flexible, inclusive and engaging. The goal of this workshop is to develop the understanding and critical thinking skills that not only support curriculum-based learning goals but start to prepare children for a future where Artificial Intelligence will have significant impact on their lives.

## **Leading the introduction of a STEM Curriculum**

**Thursday 15<sup>th</sup> November, Abbotsford**

Teaching requires a deliberate and carefully planned approach to developing skills and knowledge over an entire teaching career. Introducing and maintaining a STEM curriculum requires a commitment to ongoing professional learning. In this course participants will explore a variety of approaches to implementing a STEM curriculum and then investigate the role of the leader (or coordinator) in maintaining the commitment to change.

## **Your presenter**

Adrian Bertolini was first involved in teaching when lecturing in Aerospace Engineering at RMIT. He now applies his systems and design thinking to support transformational change for teachers and leaders in schools across Australia.



## A new approach to Professional Development

The Teacher Development Centre is bringing you a new approach to professional development in 2018. This approach will make a difference to teachers, leaders and schools:

- a) TDC professional development is about responding to the needs identified by participants for their own school context.
- b) Participants in TDC courses will work in partnership with presenters to develop an action plan for their own needs and their own school context.
- c) TDC professional development is differentiated learning at work.
- d) TDC professional development is outcomes driven.

### Features of TDC programs

- a) All TDC courses involve face to face delivery where participants work with the presenter and build connections and networks with other participants.
- b) All TDC courses are supported with comprehensive course notes and publications.
- c) All attend in person days are fully catered.
- d) All TDC courses are aligned with AITSL Standards
- e) TDC courses are registered with NESA for NSW Teachers

### Investment

For full day courses the price points are:

AEU and IEU members \$290 for early bird payments

AEU and IEU members \$320 is the regular fee

Not an AEU or IEU member, the regular fee is \$390.00

### Registration

Register for all programs at [www.teacherdevelopmentcentre.org.au](http://www.teacherdevelopmentcentre.org.au).

### Program One

Teaching problem solving through design thinking

Thursday 3<sup>rd</sup> May

IEU building, South Melbourne

9.30am – 4.30pm

### Program Two

Understanding natural and artificial intelligence

Friday 10<sup>th</sup> August

AEU building, Abbotsford, Victoria

9.30am – 4.30pm

### Program Three

Leading the introduction of a STEM curriculum

Thursday 15<sup>th</sup> November

IEU building South Melbourne

9.30am – 4.30pm

More information at [admin@teacherdevelopmentcentre.org.au](mailto:admin@teacherdevelopmentcentre.org.au) or (03) 9418 4992

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