Eivind Eriksen

Teaching

BI Norwegian Business School
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Date of birth 01 May, 1970

Teaching experience

I have more than 25 years of teaching experience, as a TA (teaching assistant) in charge of problem sessions and presenting solutions to exercises, lecturer (for small and large classes), and course responsible in charge of course development.

University of Oslo

MA100	Calculus	TA	90 h	1992
MA100	Calculus	TA	120 h	1993
MA100	Calculus	TA	60 h	1994
MA104	Linear algebra	TA	30 h	1994
MA108	Finite mathematics	TA	60 h	1994
MA104	Linear algebra	TA	60 h	1996
MA105	Vector analysis	TA	60 h	1996
Seminar	Algebraic D-modules	Lecturer	30 h	1996
MA104	Linear algebra	Lecturer, TA	120 h	1997
MA104	Linear algebra	TA	60 h	1998
Seminar	Commutative algebra II	Lecturer	30 h	1998

University of Warwick

	Mathematical excursions	TA	40 h	2000
	Combinatorics	TA	20 h	2000
	Galois theory	TA	10 h	2000
	Presentations of groups	TA	10 h	2000
	Rings and modules	TA	10 h	2002

University of South-East Norway

RBMA1300	Mathematics for economists	Lecturer	90 h	2004
RSES1020	Statistics	Lecturer	75 h	2004
RSDM1003	Mathematical methods	Lecturer	150 h	2004/05

OsloMet – Oslo Metropolitan University

FO929	Mathematics	Lecturer	140 h	2005
FO931	Physics	Lecturer	280 h	2005/06
FO208	Linear algebra	Lecturer	120 h	2006
FO929	Mathematics	Lecturer	560 h	2006/07
FO310	Linear algebra, Fourier series, vector analysis	Lecturer	60 h	2007
FO929	Mathematics	Lecturer	480 h	2007/08
	Mathematics (preparatory course)	Lecturer	25 h	2008
FO929	Mathematics	Lecturer	400 h	2008/09
	Mathematics (preparatory course)	Lecturer	25 h	2009
FO010	Calculus, linear algebra	Lecturer	190 h	2009/10

BI Norwegian Business School

FORK1005	Mathematics, Prep. course of M.Sc.	Lecturer	15 h	2008
GRA6035	Mathematics, M.Sc.	Lecturer	36 h	2009
MET2214	Mathematics Elective	Lecturer	24 h	2010
FORK1005	Mathematics, Prep. course of M.Sc.	Lecturer	21 h	2010
FORK1003	Mathematics, Prep. course of M.Sc. Business	Lecturer	9 h	2010

BI Norwegian Business School (continued)					
GRA6035	Mathematics, M.Sc.	Lecturer	51 h	2010/11	
ELE3719	Mathematics Elective	Lecturer	51 h	2011	
MET2214	Mathematics Elective	Lecturer	36 h	2011	
FORK1005	Mathematics, Prep. course of M.Sc.	Lecturer	21 h	2011	
FORK1003	Mathematics, Prep. course of M.Sc. Business	Lecturer	9 h	2011	
GRA6035	Mathematics, M.Sc.	Lecturer	51 h	2011/12	
ELE3719	Mathematics Elective	Lecturer	46 h	2012	
MET3431	Statistics	Lecturer	48 h	2012	
DRE7007	Mathematics, Ph.D.	Lecturer	20 h	2012	
GRA6035	Mathematics, M.Sc.	Lecturer	60 h	2012/13	
ELE3719	Mathematics Elective	Lecturer	49 h	2013	
FORK1005	Mathematics, Prep. course of M.Sc.	Lecturer	21 h	2013	
FORK1003	Mathematics, Prep. course of M.Sc. Business	Lecturer	9 h	2013	
GRA6035	Mathematics, M.Sc.	Lecturer	97 h	2013/14	
FORK1005	Mathematics, Prep. course of M.Sc.	Lecturer	21 h	2014	
FORK1003	Mathematics, Prep. course of M.Sc. Business	Lecturer	9 h	2014	
DRE7017	Mathematics, Ph.D.	Lecturer	20 h	2014	
GRA6035	Mathematics, M.Sc.	Lecturer	75 h	2014/15	
ELE3719	Mathematics Elective	Lecturer	48 h	2015	
MET1180	Mathematics	Lecturer	99 h	2015/16	
GRA6035	Mathematics, M.Sc.	Lecturer	66 h	2015/16	
ELE3719	Mathematics Elective	Lecturer	23 h	2016	
FORK1003	Mathematics, Prep. course of M.Sc. Business	Lecturer	9 h	2016	
MET1180	Mathematics	Lecturer	99 h	2016/17	
GRA6035	Mathematics, M.Sc.	Lecturer	51 h	2016/17	
DRE7017	Mathematics, Ph.D.	Lecturer	20 h	2016	
FORK1003	Mathematics, Prep. course of M.Sc. Business	Lecturer	18 h	2017	
MET1180	Mathematics	Lecturer	102 h	2017/18	
GRA6035	Mathematics, M.Sc.	Lecturer	51 h	2017/18	
	Course responsible				
MET1180	Mathematics			2015 -	
ELE3719	Mathematics Elective			2010 - 2016	
GRA6035	Mathematics, M.Sc.			2010 -	
DRE7017	Mathematics, Ph.D.			2012 -	
FORK1003	Mathematics, Prep. course of M.Sc. Business			2016 -	
FORK1005	Mathematics, Prep. course of M.Sc.			2010 - 2016	

I have designed and developed the course DRE7017 Mathematics, Ph.D. I have also written and graded a large number of exams, and served as external examiner for a range of course at University of Oslo, University of Agder, and University of South-East Norway.

Textbooks and other teaching material

I have written the textbook *Matematikk for økonomi og finans*, which is used for the undergraduate course *MET1180 Matematikk for siviløkonomer* in mathematics at BI Norwegian Business School, and the accompanying workbook (Eriksen [5, 8]). The textbook covers material from calculus in one and two variables and linear algebra, as well as applications to economics and finance. Prior to this, I wrote the e-book *Mattenøkkelen* together with Associate Professor H. Fausk at OsloMet – Oslo Metropolitan University (Eriksen, Fausk [9]). This e-book was meant for students in the process of starting their undergraduate degree and wishing to improve their mathematical skills and understanding.

When I worked in the Department of Engineering at OsloMet – Oslo Metropolitan University, I also developed a database of mathematical problems (algebra/precaluculus/calulus) with solutions together with my colleague H. Kittang (Eriksen, Kittang [11]).

I have also written a large number of lectures notes and other unpublished teaching materials for the classes I have taught, which are available from my web page. For the graduate course *GRA 6035 Mathematics*, I have written [6, 2, 7], and [10] (with Professor T.S. Gustavsen). For the elective undergraduate course *ELE 3719 Matematikk*, I have written [3, 4]. For a course in linear algebra, I wrote [1].

I am for the moment in the process of writing a textbook in mathematics at the graduate level, meant for master students in economic/finance, and the graduate course GRA 6035 Mathematics, M.Sc. in particular. I have received interest from several publishers for this project.

Graduate students

There is no graduate programme in Mathematics at BI Norwegian Business School and this limits my possibilities for having graduate students. Instead, I serve our students at the master and doctoral level by helping them in an informal role. For example, I assisted two master students in Business (Morseth, Bjørkman, *Interactions between the cost of emission and the rate of return from environmental research and development*, 2011) in their thesis work, which involved problems in optimal control theory.

Pedagogical education

I completed the introductory course in pedagogics, *Introduksjonskurs i høyskolepedagogikk*, at BI Norwegian Business School in 2010/11. My course paper was titled *Oppgaveregning i matematikkundervisningen. En utviklingsplan for matematikk valgfag.*

Textbooks and other teaching material

[1] E. Eriksen, *Lineær algebra og vektorrom*, `http://www.dr-eriksen.no/teaching/Reading/kompendium.pdf`, 60pp., 2005.

[2] ———, *Linear systems and Gaussian elimination*, `http://www.dr-eriksen.no/teaching/GRA6035/Reading/LSGE.pdf`, 34pp., 2011.

[3] ———, *Matriser og kvadratiske former*, `http://www.dr-eriksen.no/teaching/ELE3719/Reading/mkf.pdf`, 22pp., 2012.

[4] ———, *Digital arbeidsbok i ELE 3719 Matematikk*, `http://www.dr-eriksen.no/teaching/ELE3719/Reading/arbeidsbok.pdf`, 139pp., 2015.

[5] ———, *Matematikk for økonomi og finans*, Cappelen Damm Akademisk, 2016.

[6] ———, *Differential equations*, `http://www.dr-eriksen.no/teaching/GRA6035/Reading/ode.pdf`, 50pp., 2017.

[7] ———, *Digital workbook for GRA6035 Mathematics*, `http://www.dr-eriksen.no/teaching/GRA6035/Reading/workbook.pdf`, 165pp., 2017.

[8] ———, *Matematikk for økonomi og finans. Oppgaver og løsningsforslag*, Cappelen Damm Akademisk, 2017.

[9] E. Eriksen and H. Fausk, *Mattenøkkelen*, Gyldendal Norsk Forlag, 2014.

[10] E. Eriksen and T.S. Gustavsen, *GRA6035 Mathematics*, `http://www.dr-eriksen.no/teaching/GRA6035/Reading/lnotes.pdf`, 271pp., 2010.

[11] E. Eriksen and H. Ø. Kittang, *Oppgavebank for matematikk forkurs*, Collection of exercises and solutions in algebra, precalculus and calculus, 2008.