# TABLE OF CONTENTS

A WORD FROM THE DEAN .................................................. IX
*Alberto Tesi*

FOREWORD
INTERNATIONAL DIMENSION IN ENGINEERING EDUCATION ........ xI
*Claudio Borri*

INTRODUCTION
DEVELOPMENT OF ENVIRONMENTAL AND RESOURCES
ENGINEERING CURRICULUM 2005-2008: PRESENTATION
OF THE RESULTS ............................................................ xv
*Enrica Caporali and Atanasko Tuneski*

THE EDITORS’ DEREC EXPERIENCE .................................... 1
TEMPUS DEREC PROJECT: EXPECTED OUTCOMES,
ACHIEVED OBJECTIVES AND FUTURE PERSPECTIVE ............ Atanasko Tuneski

HOW TO DESIGN AN ENVIRONMENTAL AND RESOURCES
ENGINEERING CURRICULUM: THE DEREC PROJECT EXPERIENCE 9
*Enrica Caporali*

THE CONTRIBUTION OF TEMPUS PROJECTS TO MUTUAL
RECOGNITION OF ENGINEERING STUDY PROGRAMMES
ACROSS EUROPE .............................................................. 21
*Claudio Borri and Elisa Guberti*

EUROPEAN CONSORTIUM APPROACH TO DEREC ............... 27

Norbert Matsché and Brigitte Nikolavcic

MAPPING CURRENT AND FUTURE DEMANDS FOR MANAGEMENT OF NATURAL RESOURCES AND ENVIRONMENTAL ENGINEERING IN A COURSE CURRICULUM

Yiannis Xenidis and Demos C. Angelides

STUDY COURSES IN CIVIL AND ENVIRONMENTAL ENGINEERING AT BOCHUM: CHANCES FOR TEACHING COOPERATION AND STUDENT EXCHANGE

Kiril Stojanovski, Rüdiger Höffer and Jörg Sahlmen

MANAGING THE DEREC PROJECT

Enrica Caporali, Elena Palmisano and Juna Valdiserr

ENVIRONMENTAL AND RESOURCES ENGINEERING: DEVELOPMENT OF A STUDY COURSE AT THE SS. CYRIL AND METHODIUS UNIVERSITY IN SKOPJE WITH UNIVERSITY PARTNERS IN TETOVO (SEE), FLORENCE, BOCHUM, THESSALONIKI AND VIENNA

Günther Schmid

NEW ENVIRONMENTAL CURRICULUM IN A COUNTRY IN TRANSITION: CHALLENGES AND CHANCES

Roumiana Hadjieva-Zaharieva

TOWARDS A NEW CURRICULUM: DEFINITION, APPROACH, COURSE CONTENTS AND DEGREE TITLE, EVALUATION

ACCREDITATION OF THE DEREC STUDY PROGRAM AT SS. CYRIL AND METHODIUS UNIVERSITY

Elena Dumova-Jovanoska

DEREC DISTANCE EDUCATION CHALLENGES

Vladimir Trajkovik, Danco Daveev and Ace Dimitirevski

PREPARING A DATA VISUALIZATION COURSE FOR ENVIRONMENTAL ENGINEERING CURRICULUM

Vladimir Radevski

THE ROLE OF MATHEMATICS IN THE ENVIRONMENTAL AND RESOURCES ENGINEERING STUDIES

Nikola Tuneski
MAN AND THE ENVIRONMENT 107
Todor Anovski

AGRICULTURE SECTOR IN FYR MACEDONIA: IMPORTANCE, WATER DEFICIT MAPS AND IMPROVEMENT MEASURES 115
Ordan Cukaliev

COOPERATION AMONG THE HIGHER EDUCATION LIBRARIES: STATUS OF ART AND TRENDS 123
Rozita Petrinska