

# Higher Education Achievement Report (HEAR)

This Higher Education Achievement Report follows the model developed by the European Commission, Council of Europe and UNESCO/CEPES for the Diploma Supplement. The purpose of the supplement is to provide sufficient independent data to improve the international transparency and fair academic and professional recognition of qualifications (diplomas, degrees, certificates etc.). It is designed to provide a description of the nature, level, context, content and status of the studies that were pursued and successfully completed by the individual named on the original qualification to which this supplement is appended. It should be free from any value judgements, equivalence statements or suggestions about recognition. Information in all eight sections should be provided. Where information is not provided, an explanation should give the reason why.

<p><b>PART 1 - INFORMATION IDENTIFYING THE HOLDER OF THE QUALIFICATION</b></p> <p><b>1.1 Surname:</b></p> <input type="text" value="Venkov"/> <p><b>1.2 First Name(s):</b></p> <input type="text" value="Preslav"/> <p><b>1.3 Date of Birth (day/month/year):</b></p> <input type="text" value="02 June 1996"/> <p><b>1.4 Student identity number or code (if available):</b></p> <input type="text" value="9729815"/> <p><b>1.4.1 Unique Learner Number (ULN):</b></p> <input type="text" value="1512041875475"/>	<p><b>PART 3 - INFORMATION ON THE LEVEL OF THE QUALIFICATION</b></p> <p><b>3.1 Level of qualification:</b></p> <input type="text" value="http://www.manchester.ac.uk/edocs/edslevel"/> <p><b>3.2 Official length of programme:</b></p> <input type="text" value="4 Years"/> <p><b>3.2.1 Registered on Programme:</b></p> <input type="text" value="21 September 2015"/> <p><b>3.2.2 End Date:</b></p> <input type="text" value="07 June 2019"/> <p><b>3.3 Access Requirement(s):</b></p> <input type="text" value="http://www.manchester.ac.uk/edocs/edsaccessreqs"/>
<p><b>PART 2 - INFORMATION IDENTIFYING THE QUALIFICATION</b></p> <p><b>2.1 Name of qualification and (if applicable) title conferred:</b></p> <input type="text" value="BSc(Hons) Computer Science"/> <p><b>2.2 Main field(s) of study for the qualification:</b></p> <input type="text" value="Computer Science with Industrial Experience"/> <p><b>2.3 Name and status of awarding institution (in original language):</b></p> <input type="text" value="University of Manchester"/> <p><b>2.4 Name and status of institution (if different from 2.3) administering studies (in original language):</b></p> <input type="text" value="Taught at the University of Manchester, Oxford Road, Manchester, M13 9PL, United Kingdom"/> <p><b>2.4.1 UK Register of Learning Providers - Provider Registered Number (PRN)</b></p> <input type="text" value="10007798"/> <p><b>2.5 Language(s) of instruction/examination:</b></p> <input type="text" value="Taught and examined in English"/>	<p><b>PART 4 - INFORMATION ON THE CONTENTS AND RESULTS GAINED</b></p> <p><b>4.1 Mode of Study:</b></p> <input type="text" value="Full Time"/> <p><b>4.2 Programme Requirements:</b></p> <input type="text" value="The University publishes the learning outcomes of its programme and its individual units in the programme and unit specifications available from school administrative offices. Details of programme requirements for studies at one of the University's partner institutions are available from the relevant institution."/> <p><b>4.3 Please see transcript for details (next page)</b></p> <p><b>4.4 Grading Scheme and, if available, grade distribution guidance:</b></p> <input type="text" value="http://www.manchester.ac.uk/edocs/edsgrading"/> <p><b>4.5 Overall classification of the qualification (in original language):</b></p> <input type="text" value="First Class"/>
	<p><b>PART 5 - INFORMATION ON THE FUNCTION OF THE QUALIFICATION</b></p> <p><b>5.1 Access to further study:</b></p> <input type="text" value="Degree programmes may entitle access to Post-Graduate studies."/> <p><b>5.2 Professional status (if applicable):</b></p> <input type="text" value="http://www.manchester.ac.uk/edocs/edsprofstatus"/>

## PART 6 - ADDITIONAL INFORMATION

### 6.1 Additional Information

Students at the University of Manchester have the opportunity to engage with activities outside the academic curriculum which contribute to the life of the University and the wider community. Participation in the activities shown here has been verified by the University of Manchester. Students may also engage in other activities outside the University which the University may not be able to verify and report but which may have contributed to their personal and professional development. The University routinely awards prizes to students subject to regulation and they are also listed in this section where applicable. In addition there are non-credit bearing training courses on offer to students. Participation in these is shown here also. Information on the protocols and approvals process used to verify data for inclusion in this section can be found here.

#### Non-programme specific information about the context of study

##### The Manchester Graduate

###### Intellectual Achievements:

The University of Manchester aspires that all graduates will have intellectual curiosity, will have learned how to learn, will have a clear understanding of the differences between fact and opinion, truth and falsity, validity and invalidity, and will have achieved the basic intellectual tools of logical analysis and critical enquiry. In addition, University of Manchester graduates should have mastered the epistemological, methodological and essential knowledge base of their programme of study, acquiring a basic understanding of the processes of enquiry and research through which existing paradigms are evaluated and new knowledge is created in that discipline or disciplines. The University intends that the education provision at Manchester will encourage students to value knowledge for its own sake, and to appreciate virtuosity and creativity, whether in art, music, science, literature or any other medium through which human discourse and human culture are advanced and enriched.

###### Personal Achievements:

University of Manchester graduates should have the opportunities to develop personal qualities of independence of mind and to take of responsibility for the values, norms, assumptions and beliefs that guide their behaviour as individuals and citizens. They should be encouraged and enabled to confront their own civic values and responsibilities as local, regional and global citizens. The University aims for all students to be equipped with advanced skills of written and verbal communication, and to have been educated in an environment that embraces and values cultural diversity. The University is fundamentally committed to equality of opportunity regardless of gender, race, disability, religious or other beliefs, sexual orientation, or age.

**Roles, responsibilities and extra-curricular activities not contributing to the award of academic credit and not required as part of the degree programme. These activities are verified by the University and subject to approval processes before inclusion on the Higher Education Achievement Report. These activities do not constitute employment by the University of Manchester.**

##### 00000116 Step up and Lead

This student has under taken two Leadership roles required to meet one of the requirements of the Manchester Leadership Award. These roles have provided the skills and experience required to manage others, plan and organise, whilst using initiative and also supported the development of interpersonal and communication skills. Details of the leadership roles undertaken are listed individually on the HEAR.

##### 00000013 PASS (Peer Assisted Study Sessions) Leader

Facilitating the learning of other students following completion of a training course, based on the international model of Supplemental Instruction and covering the following key areas: facilitation, group dynamics, communication, questioning skills, and creative approaches to managing conflict and problems. PASS leaders are encouraged to explore the theory and approaches to learning in more depth, and to tailor their activities to meet the needs of their group.

##### 00000070 Student Academic Representative

Student representatives are elected by students on a particular degree programme to represent the views of those students to the University and Students' Union. Representatives receive training to proactively seek out the views of their peers on all matters relating to the student experience. They share these views and contribute to resolving potential issues at regular meetings with University staff and/or Students' Union officers. Student representatives play a central role in joint decision-making on a range of key strategic matters and act as a two-way channel of communication to ensure these discussions are fed back to their peers. They are a key part of the University's quality assurance processes, and valued volunteers within the Students' Union. They receive training and ongoing professional development in areas such as communication, negotiation, public speaking and managing meetings.

### 6.2 Further information sources:

<http://www.manchester.ac.uk/edocs/edsfurtherinfo>

### 4.3 Programme details - (e.g. modules or units studied), and the individual grades/marks/credits obtained:

<p>Computer Science graduates from the University of Manchester will have developed a high level of practical skills and a good understanding of the underlying principles of computer science, over a broad range of the discipline. They will have the ability to specify, design and build significant software applications, using appropriate development methodologies and choice of algorithms. They will have the skills to analyse problems and propose and evaluate candidate solutions. They will have developed the necessary skills to complete a significant software project, both as an individual and as a member of a team. They will have been trained in the skills and habits of self learning that prepare graduates for a successful career in a rapidly changing discipline, and will have skills in oral and written communication to enable to communicate their work to other professionals.</p>

\* Marks out of 100%; Pass marks generally 40%

Code	Subject	Grade	Stage	Credits	ECTS Credits
COMP10120	First Year Team Project	65	1	20	10
COMP11120	Mathematical Techniques for Computer Science	47	1	20	10
COMP11212	Fundamentals of Computation	35C	1	10	5
COMP12111	Fundamentals of Computer Engineering	57	1	10	5
COMP14112	Fundamentals of Artificial Intelligence	68	1	10	5
COMP15111	Fundamentals of Computer Architecture	38C	1	10	5
COMP16121	Object Oriented Programming with Java 1	47	1	20	10
COMP16212	Object Oriented Programming with Java 2	59	1	10	5
COMP18112	Fundamentals of Distributed Systems	64	1	10	5
ULSP10022	Introductory Spanish	80	1	10	5
COMP23111	Fundamentals of Databases	76	2	10	5
COMP23420	Software Engineering	69	2	20	10
COMP24111	Machine Learning and Optimisation	52	2	10	5
COMP25111	Operating Systems	61	2	10	5
COMP25212	System Architecture	47	2	10	5
COMP26120	Algorithms and Imperative Programming	58	2	20	10
COMP27112	Computer Graphics and Image Processing	74	2	10	5
COMP28112	Distributed Computing	74	2	10	5
COMP28411	Computer Networks	46	2	10	5
COMP_PASS	PASS Year 2 (Computer Science)		—	0	0
MCEL30031	Enterprise Management for Computer Scientists	79	3	10	5
MCEL30032	Managing Finance in Enterprises for Computer Scientists	72	3	10	5
COMP30040	Third Year Project Laboratory	80	3	40	20
COMP32412	The Internet of Things: Architectures and Applications	68	3	10	5
COMP33511	User Experience	79	3	10	5
COMP36512	Compilers	69	3	10	5
COMP37111	Advanced Computer Graphics	86	3	10	5
COMP38120	Documents, Services and Data on the Web	77	3	20	10
COMP3CAR	COMP - Careers Yr 3		3	0	0

7.1 Date

7.2 Signature

7.3 Capacity

7.4 Seal

05 July 2019

*Deborah H. H. H.*

Registrar,  
Secretary  
and Chief  
Operating Officer

