

THE EDUCATION OF SURVEYING ENGINEERS AT THE UNIVERSITIES OF THE  
FEDERAL REPUBLIC OF GERMANY IN THE SPECIAL SECTION OF PHOTOGRAMMETRY  
AND REMOTE SENSING

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Abstract:a short description and a list is given of the education at  
the different universities of the FRG.

1.Preliminaries

In the FRG,a country of 62 million inhabitants,there exist in the  
field of surveying eleven universities,where students can reach the  
first graduation,and ten universities,where they can reach the second  
one of their studies.On all these universities every student will  
have informations of photogrammetry and remote sensing but in different  
kinds for there is no fixed plan of the studies all over the country  
but only on the different universities.

Also in some other universities in the field of geology,geography,  
archaeology and architects informations of photogrammetry and remote  
sensing will be given but normally only in the field of photointer-  
pretation.

2.Kind of education

In the added list special informations of the studies on the diffe-  
rent universities are given.There is to be seen,that the number of  
students,of lessons (lectures) and of exercises are quite different  
and also the kind of hardware,which is available in the universities.  
Till to-day a great lot of the universities own an analytical plot-  
ter but not all of them.Studies in image processing are only done  
in the universities with the second graduation.

3.Final remarks

In front of the study at an university the students have to finish  
a practice study of different length.After the examinations at the  
universities most of the students will go to the government survey  
authorities in order to finish an administrative examination.If they  
succeed they can do not only engineering surveys but also administra-  
tive ones.

4.Literature references

Hothmer:Ausbildung in Photogrammetrie und Fernerkundung in der Bun-  
desrepublik Deutschland, BuL 6/1978, S.185

Kantelhardt:The education of surveying engineers in the offices of  
land surveying in the different states of the Federal Re-  
public of Germany, ISPRS, XXV volume, part A 6, com.VI, page  
179.

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Remarks: A - analytical plotter  
 B - analogical plotter  
 C - comparator  
 D - single plotter  
 E - rectifier  
 F - terrestrial camera

University department	address phone	main characteristics		special education to choose	number of students	number of		hardware (see remarks)	number of final reports of the studies to-day / subject
		of the lessons	of the science			lessons	exercises		
Techn.Fachhochschule FB 7	Luxemburgerstr.10 D 1000 Berlin 65 030-4504-2539	basic informations	engineering surveys architecture	-	91	12	-	1B,2C,2D,1E	2 bundle block adjustment architecture
Universität - GHS - Fachber.11	Henri-Dunant-Str.65 4300 Essen 1 0201-183-4252/4211	basic informations analytical phot.	metric camera measurements architecture	engineering survey photogrammetry land registration	492	4 (+4)	4 (+6)	1A,3B,4C,2D, 1E,5F	8 architecture, deformation measurements, software
Fachhochschule Fachbereich Vermessungsw.	Nibelungenplatz 1 6000 Frankfurt 1 069-1533-343/349	terrestrial phot. aerial phot.	architecture	engineering survey government survey phot., topograghy	139	8	2	1A,3B,1C,2D, 1E,2F	6 numerical rectification interior orientation comparison phot. with survey
Fachhochschule Fachbereich Vermessungsw.	Hebebrandtstr.1 2000 Hamburg 60 040-59105-660	basic informations	architecture	engineering survey phot.and topogr. land registration	383	16	-	1B,5D,1E	4 test of phot.instruments
Fachhochschule Fachbereich Verm./Cart.	Moltkestr.4 7500 Karlsruhe 1 0721-169-370	photogrammetry photointerpretation remote sensing	archeology software photo-interp.	-	187survey 216 cart.	8 12	2 -	1A,4B,2C,4D, 2E	till 4 topography, phot. for engineers photointerpretation, software
Fachhochschule Abt.Mainz 1 Fachb.Verm.	Holzstr.36 6500 Mainz 1 06131-232725	aerial phot.	terrest.phot. interpret.of CIR-phot.	-	200	6 (+2)	4 (+2)	2B,1C,4D,1E	5 CIR-measurements test of instruments
Fachhochschule FB 08 Verm.and Cart.	Karlstr.6 8000 München 2 089-12007-619	-	-	survey cartography	198	9 (+4)	-	1A,2B,1C,2D, 2F	6 CIR-measurements, aerotriang. calibration
Fachhochschule Fachbereich Verm.	Ofener Str.16 2900 Oldenburg 0441-71086	basic informations	ter.phot.	land registration engineering survey photogrammetry	287	12	8	1B,1C,1D,1E	3 measurements of moving things architecture
Fachhochschule für Technik and IPO	Willi-Bleicher-Str.29 7000 Stuttgart 1 0711-121-2610	-	-	land registration engineering survey photogrammetry	205	12	10	2A,12B,2C, 13D	0
Fachhochschule Studiengang Verm.	Röntgenring 8 8700 Würzburg 0931-304220	basic informations	-	-	159	9	3	3B,1C,1D,1E	4 architecture analytical measurements

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University department	address phone	main characteristics		special education to choose	number of students	number of		hardware (see remarks)	number of final reports of the studies to-day / subject
		of the lessons	of the science			lessons	exercises		
Rhein.westf. Techn.Hochsch. Lehrst.f.Geod.	Templergraben 55 5100 Aachen 0241-805302	-	accuracy of st. models microscope ph.	only half of the necessary studies	24	-	-	1A,2B,1C	-
Technische Universität Phot.and Cart.	Str.d.17.Juni 135 1000 Berlin 12 - EB 9 030-3143331	-	num.image proc. satellite images close range ph.	-	70	8	6	1A,1B,2C,3D,1E	7 image processing graphical computer work
Universität Inst.f.Phot.	Nußallee 15 5300 Bonn 0228-732716	-	engin.phot. cam.calibration harvest estim.	9	600	6 (+3)	5 (+4)	1A,1B,3C,3D,2E,6F	8
Universität Inst.f.Phot. and Cart.	Gaußstr.22 3300 Braunschweig 0531-391-2870	-	industrial phot. dig.phot.meas.	only half of the necessary studies	12	5	-	2A,5F,1D	-
Techn.Hochschul Inst.f.Phot. and Cart.	Petersenstr.13 6100 Darmstadt 06151-16-2035	analytical phot.	deformation of buildings comp.visions	8 dif.possibil., one of them: phot.	132	11	10	2A,2C,2D,1E	4 analytical and digital photogrammetry
Universität Inst.f.Phot. and Ing.v.	Nienburgerstr.1 3000 Hannover 1 0511-762-2481	photogrammetry remote sensing	analytical ph. image processing	engineering survey land information earth global mes.	233	8 (+5)	4 (+10)	3A,3B,6D,2E	10
Universität Inst.f.Phot.u. Fernerk.	Englerstr.7 7500 Karlsruhe 1 0721-608-2314	-	image processing	individual	65	15	10	8A till C	6 image processing
Universität d. Bundeswehr Inst.f.Phot./C	Werner-Helsenb.-Weg 8014 Neubiberg/M. 089-6004-3448/3435	analyt.Phot. remote sensing image processing	industrial phot. aerotriangul. with GPS	geodesy land survey and registration	192 (trimester)	14	12	1A,3B,4B,1F	3 industrial phot. photointerpretation
Techn.Univers. Lehrst.f.Phot.	Arcisstr.21 8000 München 2 089-2105-2671	-	land and space inf.systems	4 dif.possibil., one of them: phot.a.cart.	135	11	12	1A,1B,1D,1E	8
Universität Inst.f.Phot.	Keplerstr. 11 7000 Stuttgart 1 0711-121-3386	image processing remote sensing aerotriangulation	aerotriangulation digital terrain image processing	land information navigation geodesy	107	10	6	2A,1C,1D	4 image processing