

Nomor Sertifikat : 181/S-1/TM/UNIBA-13  
Certificate Number

**UNIVERSITAS BATAM**  
The Batam University  
**IJAZAH**  
Certificate

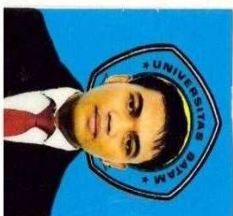
Diberikan kepada : ZULFI IRFANDI  
*Conferred on*  
Tempat dan Tanggal Lahir : BONJOL, 14 Juni 1988  
*Place and Date of Birth*  
Nomor Pokok Mahasiswa (NPM) : 11109021  
*Student Registration Number*  
Tanggal Kelulusan : 13 November 2013  
*Graduation Date*  
Program Pendidikan : Strata I (satu)  
*Degree Program* Undergraduate  
Fakultas : Fakultas Teknik  
*Faculty* Engineering  
Program Studi : TEKNIK MESIN  
*Study Program* Mechanical Engineering  
Status : TERAKREDITASI

Accredited by  
DEPARTEMEN PENDIDIKAN NASIONAL REPUBLIK INDONESIA  
The Department of National Education of the Republic of Indonesia  
BADAN AKREDITASI NASIONAL PERGURUAN TINGGI  
Through the National Accreditation Board of Higher Education  
NOMOR / TANGGAL : 247/SK/BAN-PT/AK-XVI/S/XII/2013 / 13 Desember 2013  
Number / Date

Ijazah ini diserahkan setelah yang bersangkutan memenuhi semua persyaratan yang ditentukan dan kepadanya diimpahkan segala wewenang. *This certificate is conferred after the person mentioned has fulfilled all the necessary requirements set forth by the University, with all the honor, hak, dan tanggung jawab yang berhubungan dengan ijazah yang dimilikinya, serta berhak memakai gelar akademik Sarjana Teknik (ST) privilege right, and obligations pertaining to that certificate, along with the right to use the degree of Bachelor of Engineering*

Dekan,  
Dean

Meronika, ST, MT  
NIDN. 0013047701



Batam, 17 Desember 2013,  
Rektor,  
Rector

Prof. Dr. Ir. Jemmy Rumengan, SE., MM.  
NIDN. 1019096801



# UNIVERSITAS BATAM

## TRANSKRIP AKADEMIK / ACADEMIC TRANSCRIPT

NOMOR : 181/S-17/M/UNIBA-13

Nama Mahasiswa / Name of Student : ZULFI RFANDI  
 Nomor Pokok Mahasiswa / Registration Number : 11109021  
 Tempat, Tanggal Lahir / Place, Date of Birth : BUNJOL, 14 Juni 1988

Program Studi / Departmen : TEKNIK MESIN / Mechanical Engineering  
 Jenjang Studi / Study Level : Strata I (satu) / Undergraduate  
 Tanggal Lulus / Date of Final Examination : 13 November 2013

No	MATA KULIAH Courses Title	KREDIT Credit	NILAI Grade	ANGKA Score	KSA	No	MATA KULIAH Courses Title	KREDIT Credit	NILAI Grade	ANGKA Score	KSA
1	KIMIA DASAR I / Chemistry	2	B	3	6	32	ELEMEN MESIN III / Machine Element III	3	A	4	12
2	PENGENALAN TEKNIK MESIN / Introduction to Mechanical Engineering	2	B	3	6	33	TERMODINAMIKA LANJUT / Advanced Thermodynamics	2	B	3	6
3	MENGAMBAR TEKNIK / Technical Drawing	2	B	3	6	34	MEKANIKA FLUIDA / Fluid Mechanics	3	A	4	12
4	FISIKA DASAR I / Physics I	3	C	2	6	35	KINEMATIKA & DINAMIKA TEKNIK / Kinematic & Dynamics Engineering	4	C	2	8
5	KALKULUS I / Calculus I	4	B	3	12	36	PERPINDAHAN PANAS / MASSA / Heat Transfer / Mass	4	B	3	12
6	PENDIDIKAN KEMARGANEGERAAN / Citizenship	2	A	4	8	37	PLANT LAYOUT / Plant Layout	2	C	2	4
7	PENDIDIKAN AGAMA / Religion Study	2	A	4	8	38	TEKNIK PENGATURAN / Control Engineering	2	A	4	8
8	BAHASA INGGRIS / English	2	B	3	6	39	METODE ELEMEN HINGGA / Finite Element Methods	2	B	3	6
9	MATERIAL TEKNIK / Engineering Materials	3	B	3	9	40	TEKNIK PENYAMBUNGAN / Switching Engineering	2	B	3	6
10	MENGAMBAR MESIN / Mechanical Drawing	2	B	3	6	41	TEKNIK PEMBENTUKAN MATERIAL / Material Forming	2	A	4	8
11	FISIKA DASAR II / Physics II	3	C	2	6	42	ALAT PENGANGKUT DAN PENG BAHAN / Transport Equipment and Materials Knowle	3	B	3	9
12	TERMODINAMIKA DASAR / Basic Thermodynamics	3	A	4	12	43	MESIN KONVERSI ENERGI I / Energy Conversion Machine System I	3	B	3	9
13	KALKULUS II / Calculus II	4	A	4	16	44	PENGUKURAN TEKNIK / Engineering Measurement	2	A	4	8
14	BAHASA INDONESIA / Bahasa Indonesia	2	A	4	8	45	GETARAN MEKANIS / Mechanical Vibration	2	B	3	6
15	PERANCANGAN TEKNIK / Design Engineering	2	B	3	6	46	KERJA PRAKTEK / Field Training	1	A	4	4
16	55, SR DAN K3 / 55, SR and K3 (Work Health and Safety)	2	B	3	6	47	MESIN MESIN PRODUKSI / Production Machines	2	A	4	8
17	PROSES PRODUKSI / Production Process	3	B	3	9	48	PROSES PERMESINAN / Machining Process	2	B	3	6
18	ELEMEN MESIN I / Machine Element I	3	C	2	6	49	MESIN PERKAKAS / Machine Tools	2	C	2	4
19	STATIKA STRUKTUR / Statics Structure	3	B	3	9	50	MESIN KONVERSI ENERGI II / Energy Conversion Machine System II	3	B	3	9
20	MATEMATIKA TEKNIK I (KALKULUS III) / Calculus III	3	C	2	6	51	MATERIAL KOMPOSIT / Composite Materials	3	B	3	9
21	METALURGI FISIKA / Metallurgy Physics	3	B	3	9	52	METODOLOGI PENELITIAN / Research Methodology	2	A	4	8
22	PENGANTAR MESIN KONVERSI / Introduction to Conversion Machine System	2	B	3	6	53	PRAKTEK FENOMENA DASAR MESIN / Basic Mechanical Engineering Laboratory	1	A	4	4
23	MEKANIKA KEKUATAN MATERIAL / Mechanic of Materials	3	B	3	9	54	PEMILIHAN BAHAN DAN PROSES / Materials Selection and Process	2	B	3	6
24	PROSES PRODUKSI II / Production Process II	3	B	3	9	55	MANAJEMEN INDUSTRI / Industrial Management	2	D	1	2
25	ELEMEN MESIN II / Machine Element II	3	B	3	9	56	KULIAH KERJA NYATA / Field Study	2	A	4	8
26	STATISTIKA & PERANCANGAN PERCOBAAN / Statistical Design of Experiments	2	B	3	6	57	TUGAS AKHIR & SEMINAR / Final Project & Seminar	4	A	4	16
27	TEKNIK TENAGA LISTRIK / Electrical Power Engineering	2	C	2	4	58	ENERGI ALTERNATIF / Alternative energy	2	B	3	6
28	PENGANTAR KOMPUTER PEMROGRAMAN / Introduction to Computer Programming	2	B	3	6	59	PRAKTIKUM UJI PRESTASI MESIN / Engine System Laboratory	1	B	3	3
29	MATEMATIKA TEKNIK II (KALKULUS IV) / Calculus IV	3	C	2	6	60	PERAWATAN MESIN / Engine Maintenance	2	B	3	6
30	KERUSAKAN LOGAM / Metal Damage	2	B	3	6	61	PEMROGRAMAN MESIN KONTROL NUMERIK / Numerical Control Machine Programming	2	A	4	8
31	KRITERIA KELELAHAN DALAM MESIN / Fatigue Criteria in The Machine	2	B	3	6						

IPK / GPA : 457 / 148 = 3,09 (Tiga koma Nol Sembilan)

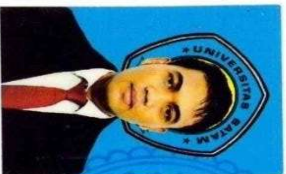
Yudisium / Yudicium : Sangat Memuaskan / With Honor

Judul Tugas Akhir / Title of Final Report: PENGGUJIAN ALAT UJI KERESAKAN BRINELL

Sistem Penilaian / Grading System : A=4 B=3 C=2 D=1 E=0



Prof. Dr. Ir. Jemmy Rumeagan, SE, MM.  
 NIDN: 1019096807



Veronika, ST, MT  
 NIDN: 0013047701

Batam, 17 Desember 2013

Deakan Fakultas Teknik

Dean

