



MODULE HANDBOOK PROJECT DESIGN



**BACHELOR DEGREE PROGRAM
DEPARTMENT OF BIOMEDICAL ENGINEERING
FACULTY OF INTELLIGENT ELECTRICAL AND INFORMATICS
TECHNOLOGY**

INSTITUT TEKNOLOGI SEPULUH NOPEMBER


MODULE HANDBOOK

PROJECT DESIGN

Module name	Project Design	
Module level	Undergraduate	
Code	EB184602	
Course (if applicable)	Project Design	
Semester	Sixth Semester (Gasal)	
Person responsible for the module	Dr. Achmad Arifin, S.T., M.Eng.	
Lecturer		
Language	Bahasa Indonesia and English	
Relation to curriculum	Undergraduate degree program, mandatory , 6 th semester.	
Type of teaching, contact hours	Lectures, <60 students	
Workload	1. Lectures : 4 x 50 = 200 minutes per week. 2. Exercises and Assignments : 4 x 50 = 200 minutes per week. 3. Private learning : 4 x 50 = 200 minutes per week.	
Credit points	4 credit points (sks)	
Requirements according to the examination regulations	A student must have attended at least 75% of the lectures to sit in the exams.	
Mandatory prerequisites	-	
Learning outcomes and their corresponding PLOs	Course Learning Outcome (CLO) after completing this module, CLO 1: Students are able to conduct an analysis of literature review relating to biomedical engineering discipline CLO 2: Students are able to conduct initial draft of the proposed project based on literature review CLO 3: Students are able to make improvements and correction from the draft project proposal that has been made CLO 4: Students are able to understand entrepreneurship principal in designing project proposals	

	CLO 5: Students are able to explain the final results of the proposed project designed	
Content	This course studies statistics (central tendency, variability, measures of individual in population), data, samples, populations, data presentation in tabular or graphical form, basic concepts of probability, probability, total probability, Bayes theorem , random variables, pdf, cdf, probability distribution (discrete and continuous distribution), estimation and testing, estimation of confidence intervals, hypothesis testing, regression, ANOVA.	
Study and examination requirements and forms of examination	<ul style="list-style-type: none"> • In-class exercises • Assignment 1, 2, 3,4,5 	
Media employed	LCD, whiteboard, websites (myITS Classroom), zoom.	
Reading list	Main : <ol style="list-style-type: none"> 1. IEEE Neurophysiology Journal 2. IEEE Biomechanics Journal 	

I. Rencana Pembelajaran Semester / *Semester Learning Plan*

		INSTITUT TEKNOLOGI SEPULUH NOPEMBER (ITS) FACULTY OF INTELLIGENT ELECTRICAL AND INFORMATICS TECHNOLOGY DEPARTMENT OF BIOMEDICAL ENGINEERING				Document Code
SEMESTER LEARNING PLAN						
MATA KULIAH (MK) COURSE	KODE CODE	Rumpun MK Course Cluster	BOBOT (sks) Credits		SEMESTER	Tgl Penyusunan Compilation Date
Proyek Disain <i>Project Design</i>	EB184602	Biocybernetics	T=4	P=0	VI	Feb 27, 2020
OTORISASI / PENGESAHAN AUTHORIZATION / ENDORSEMENT	Dosen Pengembang RPS <i>Developer Lecturer of Semester Learning Plan</i>		Koordinator RMK <i>Course Cluster Coordinator</i>		Ka DEPARTEMEN <i>Head of Department</i>	
	(Dr. Achmad Arifin, S.T., M.Eng.)		(Ir. Josaphat Pramudijanto, M.Eng.)		(Dr. Achmad Arifin, S.T., M.Eng.)	
Capaian Pembelajaran	CPL-PRODI yang dibebankan pada MK <i>PLO Program Charged to The Course</i>					
Learning Outcomes	CPL-04 <i>PLO-04</i>	Mampu berkomunikasi secara efektif baik lisan maupun tulisan <i>Have good skills in oral and writing communications</i>				
	CPL-07 <i>PLO-07</i>	Mampu merencanakan, menyelesaikan, dan mengevaluasi tugas di dalam batasan-batasan yang ada <i>Able to plan, complete, and evaluate tasks within existing boundaries</i>				
	CPL-11 <i>PLO-11</i>	Mampu memahami kebutuhan akan pembelajaran sepanjang hayat <i>Able to understand the need for lifelong learning</i>				
	Capaian Pembelajaran Mata Kuliah (CPMK) <i>Course Learning Outcome (CLO) - If CLO as description capability of each Learning Stage in the course, then CLO = LLO</i>					

	CP MK 1 CLO 1	Mahasiswa mampu melakukan analisa dari review literatur yang berkaitan dengan disiplin ilmu Teknik Biomedik <i>Students are able to conduct an analysis of literature review relating to biomedical engineering discipline</i>																																																																																								
	CP MK 2 CLO 2	Mahasiswa mampu melakukan rancangan awal usulan proyek berdasarkan review literatur <i>Students are able to conduct initial draft of the proposed project based on literature review</i>																																																																																								
	CP MK 3 CLO 3	Mahasiswa mampu melakukan perbaikan dan koreksi dari rancangan usulan proyek yang sudah dibuat <i>Students are able to make improvements and correction from the draft project proposal that has been made</i>																																																																																								
	CP MK 4 CLO 4	Mahasiswa memahami prinsip entrepreneurship dalam melakukan perancangan usulan proyek <i>Students are able to understand entrepreneurship principal in designing project proposals</i>																																																																																								
	CP MK 5 CLO 5	Mahasiswa mampu memaparkan hasil akhir dari usulan proyek yang dirancang. <i>Students are able to explain the final results of the proposed project designed</i>																																																																																								
Peta CPL – CP MK Map of PLO - CLO	<table border="1"> <thead> <tr> <th data-bbox="371 722 669 759"></th> <th data-bbox="669 722 790 759">CPL-01</th> <th data-bbox="790 722 911 759">CPL-02</th> <th data-bbox="911 722 1032 759">CPL-03</th> <th data-bbox="1032 722 1153 759">CPL-04</th> <th data-bbox="1153 722 1274 759">CPL-05</th> <th data-bbox="1274 722 1395 759">CPL-06</th> <th data-bbox="1395 722 1516 759">CPL-07</th> <th data-bbox="1516 722 1637 759">CPL-08</th> <th data-bbox="1637 722 1758 759">CPL-09</th> <th data-bbox="1758 722 1879 759">CPL-10</th> <th data-bbox="1879 722 2000 759">CPL-11</th> <th data-bbox="2000 722 2121 759">CPL-12</th> </tr> </thead> <tbody> <tr> <td data-bbox="371 759 669 834">CPMK 1 / SUB CPMK 1 CLO 1 / LLO 1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>√</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td data-bbox="371 834 669 909">CPMK 2 / SUB CPMK 2 CLO 2 / LLO 2</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>√</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td data-bbox="371 909 669 984">CPMK 3 / SUB CPMK 3 CLO 3 / LLO 3</td> <td></td> <td></td> <td></td> <td>√</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td data-bbox="371 984 669 1059">CPMK 4 / SUB CPMK 4 CLO 4 / LLO 4</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>√</td> <td></td> </tr> <tr> <td data-bbox="371 1059 669 1134">CPMK 5 / SUB CPMK 5 CLO 5 / LLO 5</td> <td></td> <td></td> <td></td> <td>√</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>													CPL-01	CPL-02	CPL-03	CPL-04	CPL-05	CPL-06	CPL-07	CPL-08	CPL-09	CPL-10	CPL-11	CPL-12	CPMK 1 / SUB CPMK 1 CLO 1 / LLO 1							√						CPMK 2 / SUB CPMK 2 CLO 2 / LLO 2							√						CPMK 3 / SUB CPMK 3 CLO 3 / LLO 3				√									CPMK 4 / SUB CPMK 4 CLO 4 / LLO 4											√		CPMK 5 / SUB CPMK 5 CLO 5 / LLO 5				√								
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Short Description of Course																	
Bahan Kajian: Materi pembelajaran Course Materials:		<ol style="list-style-type: none"> 1. Literatur review (sesuai dengan spesialisasi setiap mahasiswa) dalam bentuk jurnal, book chapter /<i>Literature review (in accordance with the specialization of each student) in the form of journal, book chapter</i> 2. Rancangan usulan proyek/<i>Proposed project design</i> 3. Pembahasan rancangan usulan proyek/<i>Discussion of the proposed project design</i> 4. Entrepreneurship/<i>Entrepreneurship</i> 5. Paparan final proyek disain /<i>Presentation of the final project design</i> 															
Pustaka References		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #e0e0e0;">Utama / Main:</td> <td colspan="3"></td> </tr> <tr> <td></td> <td colspan="3"> <ol style="list-style-type: none"> 1. <i>IEEE Neurophysiology Journal</i> 2. <i>IEEE Biomechanics Journal</i> </td> </tr> <tr> <td style="background-color: #e0e0e0;">Pendukung / Supporting:</td> <td colspan="3"></td> </tr> </table>				Utama / Main:					<ol style="list-style-type: none"> 1. <i>IEEE Neurophysiology Journal</i> 2. <i>IEEE Biomechanics Journal</i> 			Pendukung / Supporting:			
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Pendukung / Supporting:																	
Dosen Pengampu <i>Lecturers</i>																	
Matakuliah syarat <i>Prerequisite</i>		-															
Mg ke/ Week	Kemampuan akhir tiap tahap belajar (Sub-CPMK) /	Penilaian / Assessment	Bantuk Pembelajaran; Metode Pembelajaran; Penugasan Mahasiswa;	Materi Pembelajaran [Pustaka] /	Bobot Penilaian												

	<i>Final ability of each learning stage (LLO)</i>	<i>Indikator / Indicator</i>	<i>Kriteria & Teknik / Criteria & Techniques</i>	<i>[Estimasi Waktu] / Form of Learning; Learning Method; Student Assignment; [Estimated Time]</i>		<i>Learning Material [Reference]</i>	<i>/Assessment Load (%)</i>
(1)	(2)	(3)	(4)	<i>Tatap Muka / In-class (5)</i>	<i>Daring / Online (6)</i>	(7)	(8)
1-3	<p>Mahasiswa mampu melakukan analisa dari review literatur yang berkaitan dengan disiplin ilmu Teknik Biomedik. (literatur review (sesuai dengan spesialisasi setiap mahasiswa) dalam bentuk jurnal, book chapter)</p> <p><i>Students are able to conduct an analysis of literature-review relating to biomedical engineering discipline (in accordance with the specialization of each students) in form of journal, book chapter</i></p>	<ul style="list-style-type: none"> Mampu melakukan analisa dari review literatur yang berkaitan dengan disiplin ilmu Teknik Biomedik (Literatur review (sesuai dengan spesialisasi setiap mahasiswa) dalam bentuk jurnal, book chapter) <i>Able to conduct an analysis of literature-review relating to biomedical engineering discipline (in accordance with the specialization of each students) in form of journal, book chapter</i> 	<p>Non-tes : Tugas 1:</p> <p>Melakukan resume dan analisa dari literatur yang dipilih sebagai dasar usulan proyek disain</p> <p>Non-test : Assignment 1: <i>Make a resume and analysis of the selected literature as the basis for the proposed project design</i></p>	<ul style="list-style-type: none"> Kuliah dan brainstorming, tanya jawab. [TM : 4 x 50"] [BM : 4 x 50"] [PT : 4 x 50"] <i>Presentation and brainstorming, ask and answer. [FF : 4 x 50"] [SA : 4 x 50"] [SS : 4 x 50"]</i> 	<ul style="list-style-type: none"> Chatting dan diskusi dalam forum platform ITS. <i>Chat and discussion in ITS platform forum.</i> 	<ul style="list-style-type: none"> Pemilihan dan analisis jurnal maupun book chapter sesuai dengan spesialisasi mahasiswa yang menjadi dasar usulan proyek. <i>Choosing and analyzing journal or book chapter in accordance with the specialization of each students on which the project proposal is based</i> 	15


<p>4-6</p>	<p>Mahasiswa mampu melakukan rancangan awal usulan proyek berdasarkan review literatur (rancangan usulan proyek)</p> <p><i>Students are able to conduct initial draft of the proposed project based on literature review (the proposed project design)</i></p>	<ul style="list-style-type: none"> Mampu melakukan rancangan awal usulan proyek berdasarkan review literatur (rancangan usulan proyek) <i>Able to conduct initial draft of the proposed project based on literature review (the proposed project design)</i> 	<p>Non-tes : Tugas 2:</p> <p>Melakukan perancangan awal usulan proyek berdasarkan review literatur.</p> <p>Non-test : Assignment 2:</p> <p><i>Conduct initial draft of proposed project based on literature review</i></p>	<ul style="list-style-type: none"> Kuliah, diskusi, tanya jawab, latihan soal, tugas. [TM : 4 x 50"] [BM : 4 x 50"] [PT : 4 x 50"] <i>Presentation, discussion, ask and answer, exercise, assignment</i> [FF : 4 x 50"] [SA : 4 x 50"] [SS : 4 x 50"] 		<ul style="list-style-type: none"> Penulisan rancangan usulan proyek oleh mahasiswa dengan dasar dari literatur review. <i>Writing the proposed project design by students based on review literature</i> 	<p>30</p>
<p>7-9</p>	<p>Mahasiswa mampu melakukan perbaikan dan koreksi dari rancangan usulan proyek yang sudah dibuat (pembahasan rancangan usulan proyek)</p>	<ul style="list-style-type: none"> Mampu melakukan perbaikan dan koreksi dari rancangan usulan proyek yang sudah dibuat (pembahasan rancangan usulan proyek) 	<p>Non-tes : Tugas 3:</p> <p>Melakukan diskusi panelis dengan dosen</p> <p>Non-test : Assignment 3:</p> <p>Conduct panelist</p>	<ul style="list-style-type: none"> Kuliah, diskusi, tanya jawab, latihan soal, tugas [TM : 4 x 50"] [BM : 4 x 50"] [PT : 4 x 50"] <i>Presentation, discussion, ask</i> 		<ul style="list-style-type: none"> Panelis dosen dan mahasiswa dengan pembahasan rancangan usulan proyek dan pemberian masukan oleh dosen. 	<p>20</p>

	<p><i>Students are able to make improvements and correction from the draft project proposal that has been made (discussion of the proposed project design)</i></p>	<ul style="list-style-type: none"> • <i>Able to make improvements and correction from the draft project proposal that has been made (discussion of the proposed project design)</i> 	<p>discussion with lecturer</p>	<p><i>and answer, exercise, assignment</i> [FF : 4 x 50"] [SA : 4 x 50"] [SS : 4 x 50"]</p>		<ul style="list-style-type: none"> • <i>A lecturer and student panel that discusses the project proposal draft that includes a feedback session from lecturers.</i> 	
10-12	<p>Mahasiswa memahami prinsip entrepreneurship dalam melakukan perancangan usulan proyek</p> <p><i>Students are able to understand entrepreneurship principal in designing project proposals</i></p>	<ul style="list-style-type: none"> • Memahami prinsip entrepreneurship dalam melakukan perancangan usulan proyek • <i>Able to understand entrepreneurship principal in designing project proposals</i> 	<p>Non-tes : Tugas 4: Melakukan resume tentang materi yang diberikan.</p> <p>Non-test : Assignment 4: <i>Make a resume regarding the material that has been given</i></p>	<ul style="list-style-type: none"> • Kuliah, Diskusi, tanya jawab, latihan soal, tugas. [TM : 4 x 50"] [BM : 4 x 50"] [PT : 4 x 50"] • <i>Presentation, discussion, ask and answer, exercise, assignment.</i> [FF : 4 x 50"] [SA : 4 x 50"] [SS : 4 x 50"] 		<ul style="list-style-type: none"> • Panelis dosen dan mahasiswa dengan pembahasan rancangan usulan proyek dan pemberian masukan oleh dosen. • <i>Entrepreneurship lecture from alumni with the purpose of giving students the ability to integrate science and entrepreneurship aspects to project proposal</i> 	15

<p>13-16</p>	<p>Mahasiswa mampu memaparkan hasil akhir dari usulan proyek yang dirancang</p> <p><i>Students are able to explain the final results of the proposed project design.</i></p>	<ul style="list-style-type: none"> • Mampu memaparkan hasil akhir dari usulan proyek yang dirancang • <i>Able to explain the final results of the proposed project design</i> 	<p>Non tes: Tugas 5: Melakukan pemaparan tentang hasil akhir dari proyek disain yang dirancang.</p> <p>Non-test: Task 3: Assignment 5:</p> <p><i>Conduct a presentation regarding the final results of the project design</i></p>	<ul style="list-style-type: none"> • Kuliah, Diskusi, tanya jawab, latihan soal, tugas. [TM : 4 x 50"] [BM : 4 x 50"] [PT : 4 x 50"] • <i>Presentation, discussion, ask and answer, exercise, assignment.</i> <i>[FF : 4 x 50"]</i> <i>[SA : 4 x 50"]</i> <i>[SS : 4 x 50"]</i> 		<ul style="list-style-type: none"> • Mahasiswa melakukan paparan terhadap dosen terkait usulan final dari proyek yang dirancang. • <i>Students are able to explain to related lectures regarding final draft of project design</i> 	<p>20</p>
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TM=Tatap Muka, **PT**=Penugasan Terstruktur, **BM**=Belajar Mandiri.
FF = Face to Face, **SA** = Structured Assignment, **SS** = Self Study.

II. Rencana Asesmen & Evaluasi (RAE) / *Assessment & Evaluation Plan*

	ASSESSMENT & EVALUATION PLAN BACHELOR DEGREE PROGRAM OF BIOMEDICAL ENGINEERING - FTEIC ITS Course : Project Design		RA&E
			Write Doc Code
Kode/code: EB184602	Bobot sks/credits (T/P): 4/0	Rumpun MK: Biocybernetics Course Cluster: Biocybernetics	Smt: VI
OTORISASI <i>AUTHORIZATION</i>	Penyusun RA & E <i>Compiler A&EP</i> Dr. Achmad Arifin, S.T., M.Eng.	Koordinator RMK <i>Course Cluster Coordinator</i> Ir. Josaphat Pramudijanto, M.Eng.	Ka DEP <i>Head of DEP</i> Dr. Achmad Arifin, S.T., M.Eng.

Mg ke/ Week (1)	Sub CP-MK / <i>Lesson Learning Outcomes (LLO)</i> (2)	Bentuk Asesmen (Penilaian) <i>Form of Assessment</i> (3)	Bobot / Load (%) (4)
1	<p>Sub CP-MK 1: Mahasiswa mampu melakukan analisa dari review literatur yang berkaitan dengan disiplin ilmu Teknik Biomedik. (literatur review (sesuai dengan spesialisasi setiap mahasiswa) dalam bentuk jurnal, book chapter)</p> <p>LLO 1: <i>Students are able to conduct an analysis of literature-review relating to biomedical engineering discipline (in accordance with the specialization of each students) in form of journal, book chapter</i></p>	<p>Non-tes : Tugas 1:</p> <ul style="list-style-type: none"> - Melakukan resume dan analisa dari literatur yang dipilih sebagai dasar usulan proyek disain <p>Non-test : Assignment 1:</p> <ul style="list-style-type: none"> - <i>Make a resume and analysis of the selected literature as the basis for the proposed project design</i> 	15
2	Sub CP-MK 2:	Non-tes :	30

Mg ke/ Week (1)	Sub CP-MK / <i>Lesson Learning Outcomes (LLO)</i> (2)	Bentuk Asesmen (Penilaian) <i>Form of Assessment</i> (3)	Bobot / Load (%) (4)
	<p>Mahasiswa mampu melakukan rancangan awal usulan proyek berdasarkan review literatur (rancangan usulan proyek)</p> <p>LLO 2: <i>Students are able to conduct initial draft of the proposed project based on literature review (the proposed project design)</i></p>	<p>Tugas 2:</p> <ul style="list-style-type: none"> - Melakukan perancangan awal usulan proyek berdasarkan review literatur. <p>Non-test : Assignment 2:</p> <ul style="list-style-type: none"> - <i>Conduct initial draft of proposed project based on literature review</i> 	
5-6	<p>Sub CP-MK 3: Mahasiswa mampu melakukan perbaikan dan koreksi dari rancangan usulan proyek yang sudah dibuat (pembahasan rancangan usulan proyek)</p> <p>LLO 3: <i>Students are able to make improvements and correction from the draft project proposal that has been made (discussion of the proposed project design)</i></p>	<p>Non-tes : Tugas 3:</p> <ul style="list-style-type: none"> - Melakukan diskusi panelis dengan dosen <p>Non-test : Assignment 3:</p> <ul style="list-style-type: none"> - Conduct panelist discussion with lecturer 	20
10	<p>Sub CP-MK 4: Mahasiswa memahami prinsip</p>	<p>Non-tes : Tugas 4:</p> <ul style="list-style-type: none"> - Melakukan resume tentang materi yang diberikan. 	15

Mg ke/ Week (1)	Sub CP-MK / Lesson Learning Outcomes (LLO) (2)	Bentuk Asesmen (Penilaian) Form of Assessment (3)	Bobot / Load (%) (4)
	<p>entrepreneurship dalam melakukan perancangan usulan proyek</p> <p>LLO 4: <i>Students are able to understand entrepreneurship principal in designing project proposals</i></p>	<p>Non-test : Assignment 4:</p> <ul style="list-style-type: none"> - <i>Make a resume regarding the material that has been given</i> 	
14	<p>Sub CP-MK 5: Mahasiswa mampu memaparkan hasil akhir dari usulan proyek yang dirancang</p> <p>LLO 5: <i>Students are able to explain the final results of the proposed project design.</i></p>	<p>Non tes: Tugas 5:</p> <ul style="list-style-type: none"> - Melakukan pemaparan tentang hasil akhir dari proyek disain yang dirancang. <p>Non-test: Assignment 5:</p> <ul style="list-style-type: none"> - <i>Conduct a presentation regarding the final results of the project design</i> 	20
Total bobot penilaian Total assessment load			100%

Indikator Pencapaian CPL Pada MK / *Indicator of PLO achievement charged to the course*

CPL yang dibebankan pada MK / <i>PLO charged to the course</i>	CPMK / <i>Course Learning Outcome (CLO)</i>	Minggu ke / <i>Week</i>	Bentuk Asesmen / <i>Form of Assessment</i>	Bobot / <i>Load (%)</i>
CPL-04 / <i>PLO-04</i>	CPMK 3 / <i>CLO 3</i>	<i>Week- 5-6</i>	<i>Assignment 3</i>	20
	CPMK 5 / <i>CLO 5</i>	<i>Week- 14</i>	<i>Assignment 5</i>	20
CPL-07 / <i>PLO-07</i>	CPMK 1 / <i>CLO 1</i>	<i>Week- 1</i>	<i>Assignment 1</i>	15
	CPMK 2 / <i>CLO 2</i>	<i>Week- 2</i>	<i>Assignment 2</i>	30
CPL-11 / <i>PLO-11</i>	CPMK 4 / <i>CLO 4</i>	<i>Week- 2</i>	<i>Assignment 4</i>	15
				Σ = 100%

No	<i>Form of Assessment</i>	<i>PLO-01</i>	<i>PLO-02</i>	<i>PLO-03</i>	<i>PLO-04</i>	<i>PLO-05</i>	<i>PLO-06</i>	<i>PLO-07</i>	<i>PLO-08</i>	<i>PLO-09</i>	<i>PLO-10</i>	<i>PLO-11</i>	<i>PLO-12</i>	<i>Total</i>
1	<i>Assignment 1</i>							0.15						0.15
2	<i>Assignment 2</i>							0.3						0.3
3	<i>Assignment 3</i>				0.2									0.2
4	<i>Assignment 4</i>											0.15		0.15
5	<i>Assignment 5</i>				0.2									0.2
	<i>Total</i>				0.4			0.45				0.15		1