

S.No	TWO CREDIT COURSE - NEED ANALYSIS SHEET	
1.	Name of the Course	14IT2A0 - Malware Analysis
2.	Name of the Industry	Symantec, Chennai
3.	Name of the SIG associated with	Information Security and Management
4.	Motivation for offering the course	<p>In Outcome Based Education (OBE), Information Security and Management SIG has Programme core courses like <u><i>OBE - UG core/elective courses</i></u></p> <p>In Outcome Based Education (OBE), Information Security and Management SIG has Programme core courses like</p> <ul style="list-style-type: none"> • <i>Information Systems (Semester 2)</i> • <i>Network Security (Semester 5)</i> • <i>Network Management and Security Lab (Semester 5)</i> • <i>Information Storage and Management (Semester 6)</i> <p>Programme Elective courses like</p> <ul style="list-style-type: none"> • <i>Information Theory and Coding</i> • <i>Computer Forensics</i> • <i>Cloud Security</i> • <i>Applied Cryptography</i> • <i>Ethical Hacking</i> • <i>Digital Watermarking and Steganography</i> <p style="text-align: center;"><i>Information Security Auditing and Management</i></p> <p>Tools and methodologies used to perform malware analysis on executables found on Windows / Linux systems using hands-on approach has to be introduced to the students</p>

4.1	Feedback (If yes, Details of the feedback as per the annexure I)	
	From Recruiter	-
	From Employer	-
	From Alumni	-
	From Academic Council members	Yes, Syllabus reviewed and passed in Academic Council Meeting on 30.05.2015
	From Board of Studies members	Yes, Syllabus reviewed and passed in Board of Studies Meeting on 18.04.2015
	From Senior students	Yes
	From current students	-
	From Performance Assessment Committee	-
	From Department Advisory committee	-
4.2	Faculty participation in Seminar/FDP (If yes, details)	
	At higher learning institutes	-
	At Industry	Title: Ethical Hacking and Countermeasures Venue: IntelleSecure, Bangalore (5 days training - 15,16,17,23,14 August, 2014), 15-08-2014 to 24-08-2014

5.	Outcomes expected	
	Technology transfer	-
	Student Internship	Yes, started working on this proposal
	Placement	-
	Organizing FDP/seminar at TCE	Yes, Workshop on "Ethical Hacking"
	Collaborative research/consultancy projects	-
	Faculty as Trainee/Trainer in the Industry	-
	Joint publications	-
	Setting up of Lab/Infrastructure	Yes, discussing with the expert to enhance the resources in Cyberforensics Lab

**TWO CREDIT COURSE ON "T1J - MALWARE ANALYSIS"
STUDENTS NAME LIST**

S. No.	REG. NO.	ROLL NO.	NAME	SEMESTER	YEAR	SECTION
1	12IT63	55637	PARAMESSANJAY A.M.	VII	IV	B
2	12IT77	55160	R RAJKUMAR	VII	IV	B
3	12IT80	55069	A.RAMACHANDRAN	VII	IV	B
4	13IT02	56457	AARTHY.J	V	III	A
5	13IT05	56387	AKSHAYA.J	V	III	A
6	13IT08	56680	ARAVIND AYYADURAI.P	V	III	A
7	13IT10	56184	P.R.ARAVIND	V	III	A
8	13IT14	56842	ARIVARASAN.VK.	V	III	A
9	13IT15	56420	K.R.ARUN KUMAR	V	III	A
10	13IT19	56224	BALAJI.T	V	III	A
11	13IT27	56180	S.DIVYA	V	III	A
12	13IT29	56229	ELIZABETH.R	V	III	A
13	13IT30	56652	V.ENIMAI	V	III	A
14	13IT33	56509	S.GOKULAVANI	V	III	A
15	13IT39	56219	T.V.HAVISHMATHY	V	III	A
16	13IT41	56135	JAGANATHAN.M	V	III	A
17	13IT42	56199	S.JENSON	V	III	A
18	13IT44	56617	JOSHI ANGEL SARANYA .D	V	III	A
19	13IT45	56451	S.KAVI PRIYA	V	III	A
20	13IT46	56459	C.KAVYA	V	III	A
21	13IT48	56419	A.KESAVARAJKUMAR	V	III	A
22	13IT50	56098	T.KIRUTHIKA	V	III	A
23	13IT51	56671	KISHORE.M	V	III	A
24	13IT52	56357	KRISHNAPRIYA.E	V	III	A
25	13IT53	56738	M.MAHALINGAM	V	III	A
26	13IT57	56012	K.S.MANOJ	V	III	A
27	13IT60	56137	V.MEENALAKSHMI	V	III	A
28	13IT121	56975	J AJEETH KUMAR	V	III	A
29	13IT125	56977	A.J.DHARSINI	V	III	A
30	13IT133	56969	T.NANDHINI	V	III	A
31	13IT134	56976	S.RADHA	V	III	A
32	13IT136	56971	SANJAY.S	V	III	A
33	13IT140	56980	R.B.SRI DEVI	V	III	A
34	13IT143	56974	M.UDHAYA KUMAR	V	III	A
35	13IT62	56170	J.MOHAMED HUSHAIN	V	III	B
36	13IT65	56572	MUTHU ALAGAPPAN M	V	III	B
37	13IT68	56100	S.NAVEEN KUMAR	V	III	B
38	13IT69	56829	R.NAVEEN KUMAR	V	III	B

**TWO CREDIT COURSE ON "T1J - MALWARE ANALYSIS"
STUDENTS NAME LIST**

39	13IT72	56412	NISHA.J	V	III	B
40	13IT74	56782	C. NIVETHA DEVI	V	III	B
41	13IT78	56611	R.PRAGADEESH	V	III	B
42	13IT79	56868	PRATHIBA.V.K	V	III	B
43	13IT81	56492	N.M.S.PRAYAKSITHA	V	III	B
44	13IT85	56264	V.PUVIYARASU	V	III	B
45	13IT86	56453	RAJESWARAN.P	V	III	B
46	13IT91	56737	R.R.REVATHI	V	III	B
47	13IT92	56297	R.SANGAVI	V	III	B
48	13IT93	56807	S.SAPNA MEENU	V	III	B
49	13IT95	56430	SENTHIL.C	V	III	B
50	13IT101	56458	SHIVA SHANKARI R A	V	III	B
51	13IT102	56541	S.SHIVASURYA	V	III	B
52	13IT108	56840	SRIRAMAMOORTHY S	V	III	B
53	13IT111	56254	K.SWARNALAKSHMI	V	III	B
54	13IT114	56146	A.E.UDHAYA SURIYAN	V	III	B
55	13IT116	56331	R.VARSHINI	V	III	B
56	13IT117	56142	A.VENKATRAMAN	V	III	B
57	13IT127	56232	KAMESH RAJAN.T	V	III	B
58	13IT135	56987	N.RAMKUMAR	V	III	B
59	13IT137	56981	P.SATHEESH KUMAR	V	III	B
60	13IT138	56983	S.SEETHARAMAN	V	III	B
61	13IT141	56985	R.SRINATH	V	III	B
62	13IT142	56984	SYED ABUTHAHIR.M	V	III	B

THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI – 15

FOUR DAYS - TWO CREDIT COURSE ON "MALWARE ANALYSIS"

25TH JULY, 26TH JULY, 1ST AUGUST AND 2ND AUGUST, 2015

PROGRAMME - SCHEDULE & REPORT

Day/Sessions	SESSION I 9.00 – 10.30 AM	10.30 – 11.00AM	SESSION II 11.00AM – 12.30PM	12.30 – 1.30 PM	SESSION III 1.30 – 3.00 PM	3.00 – 3.15PM	SESSION IV 3.15– 4.45 PM	4.45 – 5.00PM	SESSION V 5.00– 6.30 PM
25.July.2015	Introduction Malware – Definition, Types, Goals. Malware Analysis – Definition, Requirements, Essentials, Goals and Objectives.	TEA BREAK	Dynamic Analysis PE structure, Tools for malware analysis, Procedure to protect the host, Procedure to analyse a file and giving reputation,	LUNCH BREAK	Dynamic Analysis Analyse DLL files, Network traffic analysis, Creating YARA rules.	TEA BREAK	Analysing Non-PE files File structures of non-PE file, Importance of non-PE files,	TEA BREAK	Revision & Practical Session
26.July.2015	Analysing Non-PE files Tools to analyse non-PE files, Analysis of Microsoft document file, PDF files, Flash files.		Static Analysis Importance of PE structures, Packers,		Static Analysis Compilers, Crypters, Tools for static analysis, Debuggers,		Static Analysis Disassemblers, packing and unpacking a malware		Revision & Practical Session
1st August,2015	Static Analysis Introduction to virustotal, Hashing, Need of Antivirus, Working principle of Antivirus,		Static Analysis Create signature for a malware to support antivirus.		Web Exploits analysis Severity of web exploits, Why & How web exploits carried on, Tools to analyse web exploits,		Web Exploits analysis Environment setup, Exploit kit analysis, Vulnerabilities used in Exploit kits, Vulnerabilities used to create exploit kits.		Revision & Practical Session
2nd August,2015	Hands-On Practice FakeAV malware, ZeroAccess Rootkit,		Hands-On Practice Ransomware for trainees, DLL malware samples, Trojan.RATdll file for trainees,		Hands-On Practice Microsoft document file embedded with malware, PDF file embedded with malware,		Hands-On Practice Static analysis of a malware sample (PlugX rat), Web exploits, and YARA rules creation		Revision & Practical Session

Programme Inauguration: 8.45 AM, 25th July,2015

Programme Valedictory: 6.30 pm, 2nd August,2015